



TOWN OF NEWPORT, N.H.

October 14, 2014

Sent via Certified Mail and Fax

Ms. Susan Studlien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
Boston, MA 02109

Re: NPDES Permit No. NH0100200
Administrative Order Docket No. 09-015
Town of Newport Wastewater Treatment Plant Upgrade
Quarterly Report

Dear Ms. Studlien:

As required by the EPA's Administrative Order (AO), please find the following quarterly report on the status of the Town's Wastewater Treatment Facility Upgrade for the July to September 2014 period.

Phosphorus Removal

The Wastewater Treatment Plant Operators continued to struggle with operation of the filters. The filters frequently were unable to handle the flow and bypass operations were necessary at times.

AECOM visited the plant to review the punch-list status and to inspect the filter operations to determine possible causes for the continuing filter operation issues.

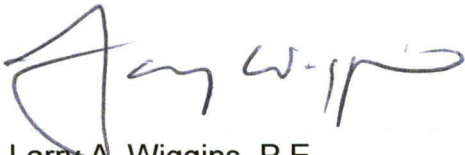
WesTech visited the site in September to repair filter controls.

AECOM prepared a protocol for peak-flow testing of the filters. Due to WesTech's schedule and its presence being necessary to fully evaluate filter operations, the peak-flow testing is scheduled for the end of October 2014. AECOM, Penta, WesTech, NHDES and Town representatives are expected to be onsite for that performance test.

The Town will keep NHDES and EPA apprised of the situation and any significant events relative to project status when more substantial information is known.

If you need further information or have any questions, please call me at (603) 863-3650.

Respectfully,

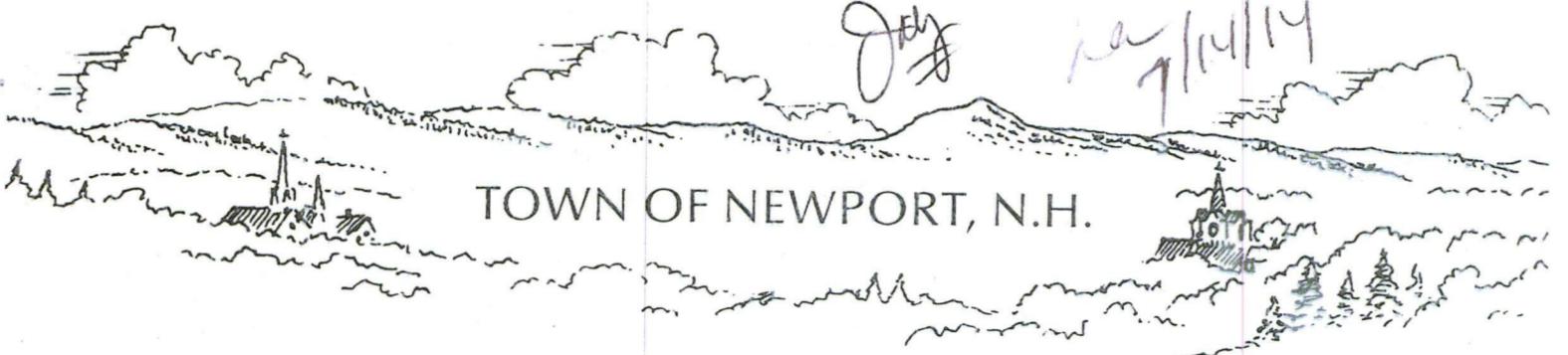


Larry A. Wiggins, P.E.
Public Works Director
Town of Newport, NH

LAW/jas

cc: Tracy Wood, P.E., NHDES (Water Engineering Bureau-Compliance, PO Box 95, Concord, NH 03302-0095)
P. Brown, Town Manager
A. Greenleaf, Wastewater Treatment Plant Superintendent
R. Naylor, Water & Sewer Superintendent
B. Hilliard (NHDES, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095)
A. Fulton, Esq. (Gardner, Fulton & Waugh, P.L.L.C. – 78 Bank Street, Lebanon, NH 03766-1727)

FAX EPA - 617-918-0700
EPA - CERTIFIED MAIL: 7013 2630 0000 7431 6320
NHDES - CERTIFIED MAIL: 7014-0510-0001-7050-8119



TOWN OF NEWPORT, N.H.

July 14, 2014

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In April and May, the WWTP operators struggled with the filters clogging and with cassette failures. In late May, the cassette failure problem required bypassing the filters until new cassettes were received in mid-June.

On May 30, 2014, representatives of AECOM, the Town of Newport and the NH Department of Environmental Services met in Concord, NH to discuss the plant's operational status, violations status and possible resolutions.

After receipt of the final Punchlist, Penta Corp. is to schedule the filter manufacturer to perform a thorough inspection of the filters and associated equipment to certify their operation and performance. A final performance test will begin after the filters are determined to be in accordance with project specifications. The performance test date has not yet been determined.

2. With regards to Whole Effluent Toxicity:

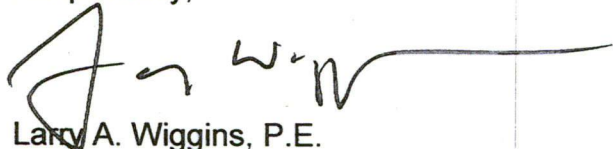
Since the Phosphorus Removal Project is experiencing operational problems, the EPA required WET compliance monitoring (as stated in the Administrative Order) will be delayed until the plant is operational.

3. The infiltration and inflow study is ongoing. The Public Works Department is continuing the sewer system evaluation by constructing additional sewer manholes, performing infiltration and inflow testing and sewer video.

The Town will keep NHDES and EPA apprised of the situation and any significant events relative to project status when more substantial information is known.

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Respectfully,



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Public Works Director
Town of Newport, NH

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A. Greenleaf, Wastewater Treatment Plant Superintendent
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A. Fulton, Esq. (Gardner, Fulton & Waugh, P.L.L.C. - 78 Bank Street, Lebanon, NH 03766-1727)

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FAX EPA - 617-918-0700
EPA - CERTIFIED MAIL: 7013 2630 0000 7431 6221
NHDES - CERTIFIED MAIL: 7013 2630 0000 7431 6238

5/12/14 9:30 am mts w/ NHDES (cont. call)

Paul, Tracy, Ken, Tim + Jay

Newport SNC P

2) another issue algae bloom w/ lagoons
"roller coaster"

2009 AO new P "
12/31/12

open AO - to get quarterly rpts - continued
resolution in near future

3) new AO is needed

Paul H. - comply w/ AO
good contract
design issue

filters were blinded

clarifier ahead of filters needed

3) get help from EPA

Ken + Tim } spent the most time
in the last year +
to get system to work
Blueleaf to get chem add
Alum + polymer delivery sys

hard to get that to work
late summer/early fall 2013

filters — normal P + algae mix

{ mechanical prob w/sys

{ cloth filters

25 sections of the filter broke down
replaced since startup

contractor performed test 25 day test
in November 2013

meeting less than 0.35 mg/l P.

→ mech. probs coag or polymer
probs. @ day 21/22

polymer lost to system

took spray to filter system — { pressure washing

why didn't they wait for system to settle down?

the spares filters — failed? { labelling all filter

filter sections randomly ^{cassettes} breaking out ^{this now} & tracking

— ??? pressure washer

late fall / winter months day

ice out of lagoon #2 — filters
polymer working too well &
green to make paste to filters
breaking out fabric in filters

load to filters is too great w/ algae bloom

loading &

WW characterization is wrong
far amt of research

is disc filter tech a stand alone tech?
3-4 parts out

Sam's worth — needs (lagoon) upfront
treatment units w/ lagoon sys.
— polishing operation
uses disc filters

engineer missed the boat on WW
characterization
chem add + clarifier needed

pilot study — 2010 fall Oct/Nov 2010
absolute clarity of
lagoon eff.

— best ever quality eff. — 10-days study
not long enough to characterize waste

Tim — rotation pilot clog due to algae
at one point
how were measurements done
if there were solids?
his charact lagoons & filters
need new WW characterization
error here

design flow met in permit?

summer blended flow } high flow
test done
using potable water
to supplement

design flows req'd are fine — not the problem
here

contracts

solids loading to filters }
low phosphorus

WW characterization
problem

bottom line } permit vio's — filter
sections failures
can't process
wastewater @ this
solids load

at some point bypassing around units
will result in

formal action

→ engineer (design by APCOM)
compliance sched.
got remedy ~~clarifier~~ or something

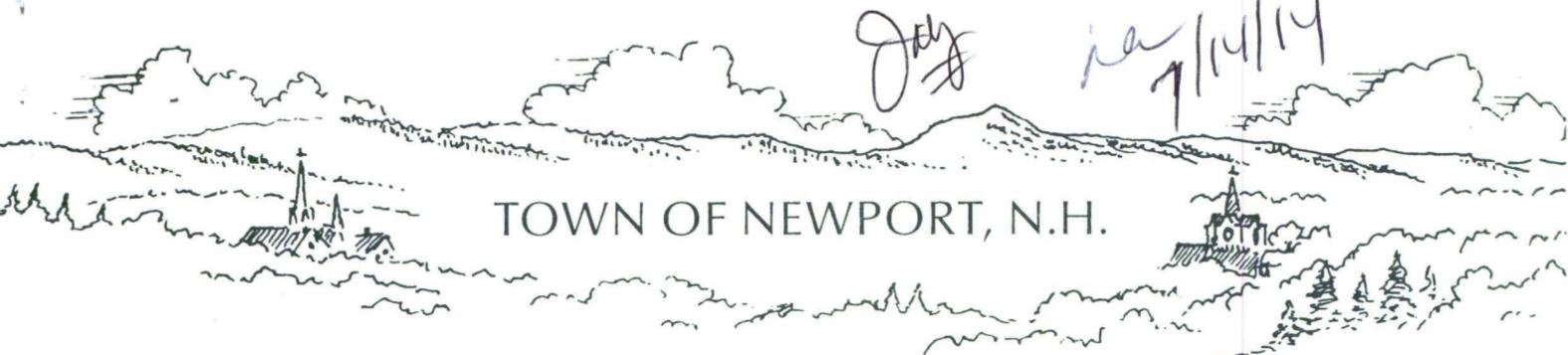
our Town —

NHDES to approach Town — work to negotiate an AOC

may need a special Town Mtg.

If Town won't go to table to negotiate an SAEC w/ NHDES, then EPA to issue AO.

Tracy will keep ~~m/PA~~ in the loop.



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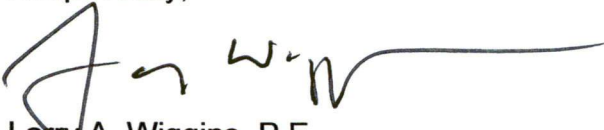
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EPA - CERTIFIED MAIL: 7013 2630 0000 7431 6221
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TOWN OF NEWPORT, N.H.

April 14, 2014

Sent via Certified Mail and Fax

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Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
Boston, MA 02109

Re: NPDES Permit No. NH0100200
Administrative Order Docket No. 09-015
Town of Newport Wastewater Treatment Plant Upgrade
Quarterly Report

Dear Ms. Studlien:

As required by the EPA's Administrative Order (AO), please find the following quarterly report on the status of the Town's Wastewater Treatment Facility Upgrade for the January to March 2014 period.

1. In early January Penta Corp submitted a request for partial Substantial Completion (Substantial Completion on the entire plant except the filters and associated equipment).

Due to sludge build up in the filters, several filter cassettes were damaged. The onsite surplus cassettes were discovered to be the incorrect size, and Penta Corp. agreed to order replacement cassettes. They were delivered to the plant in the end of January.

After installing the replacement cassettes and performing a thorough cleaning, the Town attempted to determine the chemicals and dosages for filter operation during cold weather. The Town notified AECOM and the NHDES of the Town's intentions and both parties attended on a regular basis. AECOM sent a chemical expert to assist with the trials. Both Alum and PACL were tested as coagulants. The polymer was changed in dosage only. As a result of the testing during the 3 month period, it appears PACL is better suited for cold temperatures. At the end of March the filters were operational and the effluent Total P (after the filters) was regularly below the limit of 0.42 mg/l.

AECOM, Penta Corp., NHDES and the Town performed a Punchlist walkthrough of the project in late March. Penta Corp. is to start on the Punchlist work upon receipt of a final Punchlist from AECOM.

After receipt of the final Punchlist, Penta Corp. is to schedule the filter manufacturer to perform a thorough inspection of the filters and associated equipment to certify their operation and performance. A final performance test will begin after the filters are determined to be in accordance with project specifications. The performance test date has not yet been determined.

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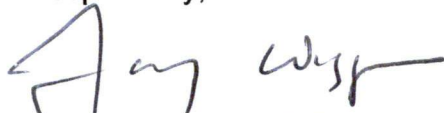
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The Town will keep NHDES and EPA apprised of the situation and any significant events relative to project status when more substantial information is known.

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LAW/jas

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FAX EPA - 617-918-0700
EPA - CERTIFIED MAIL: 7013 2630 0000 7431 6085
NHDES - CERTIFIED MAIL: 7013 2630 0000 7431 6092



January 20, 2014

Sent via Certified Mail and Fax

Ms. Susan Studlien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
Boston, MA 02109

Re: NPDES Permit No. NH0100200
Administrative Order Docket No. 09-015
Town of Newport Wastewater Treatment Plant Upgrade
Quarterly Report

Dear Ms. Studlien:

As required by the EPA's Administrative Order (AO), please find the following quarterly report on the status of the Town's Wastewater Treatment Facility Upgrade for the October to December 2013 period.

1. In October 2013, Penta Corporation initiated a 25 day performance test as required by contract specifications. For approximately 22 days the plant was delivering effluent generally meeting permit limits until the plant experienced a problem with the polymer system. This resulted in the filters going into constant backwash which is inconsistent with contract specifications. Penta Corporation then power washed the filters in an effort to continue the 25 day test. After power washing, several filter cassettes were found to be damaged and a sufficient number of replacement cassettes were not available to replace all those damaged, so the test was terminated.

Penta Corporation submitted a request for Substantial Completion on the entire project with exception of the filters.

In light of the results of the performance test and Penta Corporation's request, the Town met with the NHDES and convened a telephone conference with



October 28, 2013

Sent via Certified Mail and Fax

Ms. Susan Studlien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
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Re: NPDES Permit No. NH0100200
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Town of Newport Wastewater Treatment Plant Upgrade
Quarterly Report

Dear Ms. Studlien:

As required by the EPA's Administrative Order (AO), please find the following quarterly report on the status of the Town's Wastewater Treatment Facility Upgrade for the July to September 2013 period.

1. Penta Corporation was onsite in July and discovered the filter nozzles were plugged. Penta then subsequently cleaned the nozzles. WesTech Corporation (the filter manufacturer) then visited in August and found several mechanical issues were not to specifications. WesTech also made some operational adjustments.

While WesTech Corporation was onsite, the Town, Penta Corporation representatives of the NHDES tested the filters and some operational adjustments were made during testing. The filters then performed approximately two weeks and then went into continuous backwash. WesTech Corporation scheduled an onsite visit for October 29, 2013 to repair mechanical issues discovered in August. The Town met with the NHDES and AECOM (the Town's consultant) on October 7, 2013 to discuss the future protocol and possible solutions to the filter issues.

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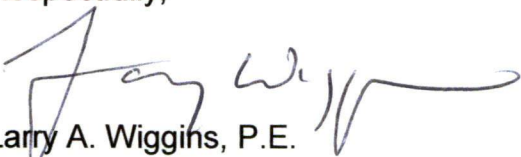
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FAX EPA - 617-918-0700
EPA - CERTIFIED MAIL: 7012 2210 0002 0519 2725
NHDES - CERTIFIED MAIL: 7012 2210 0002 0519 2732



TOWN OF NEWPORT, N.H.

FAX TRANSMISSION

DATE: October 28, 2013
FAX TO: USEPA
ATTN: Susan Studlien, Director
FAX NO.: 617-918-0700

FROM: Larry Wiggins
NEWPORT Public Works DEPARTMENT
FAX NO.: 603-863-8015

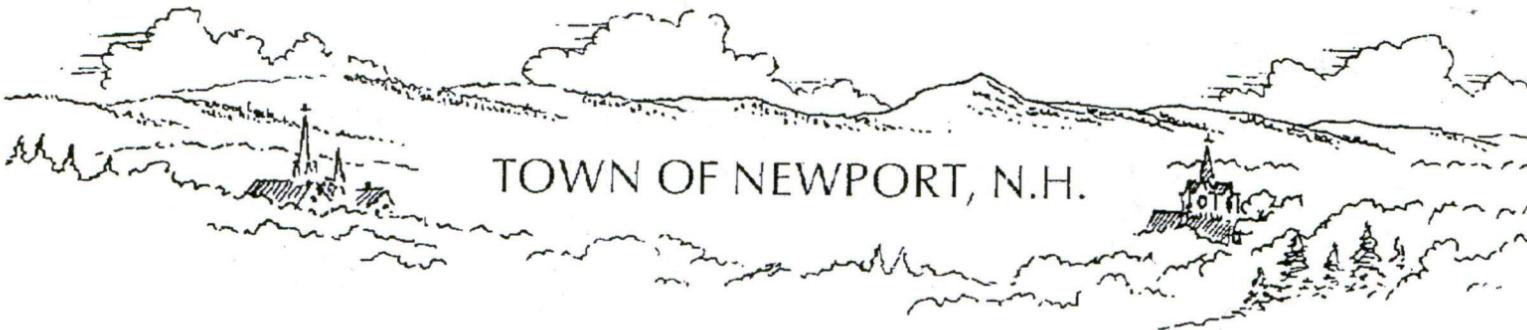
FAX TRANSMISSION REGARDING:

NPDES Permit No. NH100200
Administrative Order Docket No. 09-015
Town of Newport WWTP Upgrade
Quarterly Report for July to Sept. 2013

PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 603-863-3650 IF YOU DO NOT RECEIVE ALL PAGES OR HAVE ANY QUESTIONS REGARDING THIS DOCUMENT.

TOTAL PAGES INCLUDING THIS COVER PAGE 3

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Ms. Susan Studlien, Director
USEPA Office of Environmental Stewardship
WWTP Phosphorus Removal Upgrade (AO 09-015)

October 28, 2013
Quarterly Report
Page 2 of 2

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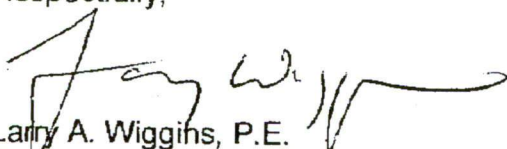
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EPA - CERTIFIED MAIL: 7012 2210 0002 0519 2725

NHDES - CERTIFIED MAIL: 7012 2210 0002 0519 2732

7/30/13 8:18 AM

Permit Limits with DMR Data

NEWPORT WASTEWATER TREATMENT FACILITY\

001A

Monitoring Location = 1

Aluminum, total recoverable

Limit Start Date = 7/1/07

Season = 0

Param	MP Dt	Rec Dt	C1		C3	
			Req. Mon. mg/L	MO AVG	Req. Mon. mg/L	DAILY MX
01104	01/31/2011	2/11/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	02/28/2011	3/11/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	03/31/2011	4/15/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	04/30/2011	5/13/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	05/31/2011	6/10/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	06/30/2011	7/11/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	07/31/2011	8/12/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	08/31/2011	9/15/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	09/30/2011	10/14/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	10/31/2011	11/12/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	11/30/2011	12/14/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	12/31/2011	1/13/11	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	01/31/2012	2/10/12	9 mg/L	9 mg/L	9 mg/L	9 mg/L
01104	02/29/2012	3/13/12	NODI Code = 9	NODI Code = 9	NODI Code = 9	NODI Code = 9
01104	03/31/2012	4/6/12	NODI Code = 9	NODI Code = 9	NODI Code = 9	NODI Code = 9
01104	04/30/2012	5/12/12	NODI Code = 9	NODI Code = 9	NODI Code = 9	NODI Code = 9

MARCH - APRIL 2013:

BLUELEAF, INC. - TESTED DIFFERENT COAGULANTS & INVESTIGATED FILTER PERFORMANCE - HYPOTHESIZED REASONS FOR PROBLEM W/WHITES TO DISCUSS OPTIONS TO RESOLVE THE FILTER PERFORMANCE ISSUES

4/23/13 - TOWN MET

7/22/13 - TOWN, AECOM (PROJ. ENG.) & PENTA CORP. (PROJ. CONTRACTOR) MET TO DISCUSS PROJ. STATUS AND START-UP ISSUES RESOLUTION

I/F STUDY - ONGOING

MANUFACTURER (PENTA CORP. SUBCONTRACTOR)

AECOM LTR (2/20/13) - WESTECH IN DISC FILTERS OPERATIONAL ISSUES - NODI ACHIEVE SUBSTANTIAL COMPLETION OF THE PROJECT - new permanent backwash water pumps + probes re-ordered from Sweden - scheduled to be installed in 2013 - 100,000 gals sludge removed

				C1	C3
				Req. Mon. mg/L	Req. Mon. mg/L
Pram	MP Dt	Rec Dt		MO AVG	DAILY MX
01104	05/31/2012	6/14/12		NODI Code = 9	NODI Code = 9
01104	06/30/2012	7/11/12		NODI Code = 9	NODI Code = 9
01104	07/31/2012	8/9/12		NODI Code = 9	NODI Code = 9
01104	08/31/2012	9/15/12		NODI Code = 9	NODI Code = 9
01104	09/30/2012	5/21/13		NODI Code = 9	NODI Code = 9
01104	10/31/2012	11/13/12		NODI Code = 9	NODI Code = 9
01104	11/30/2012	12/11/12		NODI Code = 9	NODI Code = 9
01104	12/31/2012	1/15/13		9.3 mg/L	9.3 mg/L
01104	01/31/2013	2/14/13		1.1 mg/L	1.4 mg/L
01104	02/28/2013	3/14/13		3.3 mg/L	4.6 mg/L
01104	03/31/2013	4/11/13		0.3 mg/L	0.41 mg/L
01104	04/30/2013	5/15/13		0.12 mg/L	0.21 mg/L
01104	05/31/2013	6/13/13		0.1 mg/L	0.32 mg/L
01104	06/30/2013	7/15/13		0.2 mg/L	0.5 mg/L

BOD, 5-day, 20 deg. C

Limit Start Date = 7/1/07

Season = 0

				C1	C2	C3
				325 lb/d	45 mg/L	50 mg/L
Pram	MP Dt	Rec Dt		MO AVG	WKLY AVG	DAILY MX
00310	01/31/2011	2/11/11		48 lb/d	14 mg/L	14 mg/L
00310	02/28/2011	3/11/11		46 lb/d	12 mg/L	12 mg/L
00310	03/31/2011	4/15/11		115 lb/d	23 mg/L	23 mg/L
00310	04/30/2011	5/13/11		63 lb/d	10 mg/L	10 mg/L
00310	05/31/2011	6/10/11		48 lb/d	12 mg/L	12 mg/L
00310	06/30/2011	7/11/11		31 lb/d	6 mg/L	6 mg/L
00310	07/31/2011	8/12/11		14 lb/d	NODI Code =	4 mg/L

Pram	MP Dt	Rec Dt	Q1	Q2	C1	C2	C3
00310	07/31/2011	9/15/11	325 lb/d MO AVG NODI Code =	542 lb/d DAILY MX NODI Code =	30 mg/L MO AVG NODI Code =	45 mg/L WKLY AVG NODI Code =	50 mg/L DAILY MX NODI Code =
00310	08/31/2011	9/15/11	15 lb/d	21 lb/d	4 mg/L	6 mg/L	5 mg/L
00310	09/30/2011	10/14/11	31 lb/d	60 lb/d	4 mg/L	6 mg/L	6 mg/L
00310	10/31/2011	11/12/11	17 lb/d	22 lb/d	3 mg/L	3 mg/L	3 mg/L
00310	11/30/2011	12/14/11	20 lb/d	37 lb/d	4 mg/L	6 mg/L	6 mg/L
00310	12/31/2011	1/13/12	51 lb/d	63 lb/d	7 mg/L	8 mg/L	8 mg/L
00310	01/31/2012	2/10/12	47 lb/d	52 lb/d	10 mg/L	11 mg/L	11 mg/L
00310	02/29/2012	3/13/12	46 lb/d	58 lb/d	10 mg/L	12 mg/L	12 mg/L
00310	03/31/2012	4/6/12	53 lb/d	67 lb/d	11 mg/L	12 mg/L	12 mg/L
00310	04/30/2012	5/12/12	50 lb/d	62 lb/d	12 mg/L	13 mg/L	13 mg/L
00310	05/31/2012	6/14/12	32 lb/d	54 lb/d	5 mg/L	9 mg/L	9 mg/L
00310	06/30/2012	7/11/12	11 lb/d	15 lb/d	2 mg/L	3 mg/L	3 mg/L
00310	07/31/2012	8/9/12	34 lb/d	43 lb/d	9 mg/L	10 mg/L	10 mg/L
00310	08/31/2012	9/15/12	20 lb/d	26 lb/d	5 mg/L	6 mg/L	6 mg/L
00310	09/30/2012	5/21/13	15 lb/d	20 lb/d	4 mg/L	5 mg/L	5 mg/L
00310	10/31/2012	11/13/12	9 lb/d	13 lb/d	2 mg/L	3 mg/L	3 mg/L
00310	11/30/2012	12/11/12	23 lb/d	29 lb/d	4 mg/L	6 mg/L	6 mg/L
00310	12/31/2012	1/15/13	40 lb/d	52 lb/d	9 mg/L	10 mg/L	10 mg/L
00310	01/31/2013	2/14/13	40 lb/d	75 lb/d	7 mg/L	13 mg/L	13 mg/L
00310	02/28/2013	3/14/13	44 lb/d	45 lb/d	9 mg/L	10 mg/L	10 mg/L
00310	03/31/2013	4/11/13	110 lb/d	170 lb/d	18 mg/L	24 mg/L	24 mg/L
00310	04/30/2013	5/15/13	107 lb/d	150 lb/d	16 mg/L	22 mg/L	22 mg/L
00310	05/31/2013	6/13/13	81 lb/d	105 lb/d	14 mg/L	13 mg/L	21 mg/L
00310	06/30/2013	7/15/13	76 lb/d	83 lb/d	9 mg/L	NODI Code =	10 mg/L
00310	06/30/2013	7/25/13	NODI Code =	NODI Code =	NODI Code =	21 mg/L	NODI Code =

E. coli, thermotol. MF, MTEC

Limit Start Date = 7/1/07

Season III - V

Prm	MP Dt	Rec Dt	C1		C3	
			126 #/100mL	MO GEO	406 #/100mL	DAILY MX
31633	01/31/2011	2/1/11	49 #/100mL		142 #/100mL	
31633	02/28/2011	3/1/11	30 #/100mL		188 #/100mL	
31633	03/31/2011	4/15/11	20 #/100mL		177 #/100mL	
31633	04/30/2011	5/13/11	3 #/100mL		7 #/100mL	
31633	05/31/2011	6/10/11	3 #/100mL		8 #/100mL	
31633	06/30/2011	7/1/11	2 #/100mL		7 #/100mL	
31633	07/31/2011	8/12/11	2 #/100mL		2 #/100mL	
31633	08/31/2011	9/15/11	3 #/100mL		24 #/100mL	
31633	09/30/2011	10/14/11	3 #/100mL		5 #/100mL	
31633	10/31/2011	11/12/11	2 #/100mL		2.5 #/100mL	
31633	11/30/2011	12/14/11	2 #/100mL		2 #/100mL	
31633	12/31/2011	1/13/11	14 #/100mL		86 #/100mL	
31633	01/31/2012	2/10/12	23 #/100mL		140 #/100mL	
31633	02/29/2012	3/13/12	6 #/100mL		16 #/100mL	
31633	03/31/2012	4/6/12	12 #/100mL		44 #/100mL	
31633	04/30/2012	5/12/12	4 #/100mL		40 #/100mL	
31633	05/31/2012	6/14/12	3 #/100mL		6 #/100mL	
31633	06/30/2012	7/1/12	2 #/100mL		2 #/100mL	
31633	07/31/2012	8/9/12	2 #/100mL		2 #/100mL	
31633	08/31/2012	9/15/12	2 #/100mL		2 #/100mL	
31633	09/30/2012	5/21/13	2 #/100mL		2 #/100mL	
31633	10/31/2012	11/13/12	2 #/100mL		2 #/100mL	
31633	11/30/2012	12/11/12	2 #/100mL		2 #/100mL	
31633	12/31/2012	1/15/13	18 #/100mL		163 #/100mL	
31633	01/31/2013	2/14/13	3 #/100mL		22 #/100mL	
31633	02/28/2013	3/14/13	10 #/100mL		93 #/100mL	
31633	03/31/2013	4/11/13	266 #/100mL		266 #/100mL	
31633	04/30/2013	5/15/13	5 #/100mL		20 #/100mL	
31633	05/31/2013	6/13/13	12 #/100mL		154 #/100mL	
31633	06/30/2013	7/15/13	7 #/100mL		30 #/100mL	

Flow. in conduit or thru treatment plant

Limit Start Date = 7/1/07

Season = 0

Pram	MP Dt	Rec Dt	Q1	Q2
			Req. Mon. MGD MO AVG	Req. Mon. MGD DAILY MX
50050	01/31/2011	2/11/11	0.47 MGD	0.58 MGD
50050	02/28/2011	3/11/11	0.47 MGD	0.53 MGD
50050	03/31/2011	4/15/11	0.94 MGD	1.6 MGD
50050	04/30/2011	5/13/11	0.97 MGD	1.2 MGD
50050	05/31/2011	6/10/11	0.78 MGD	0.95 MGD
50050	06/30/2011	7/11/11	0.63 MGD	0.95 MGD
50050	07/31/2011	8/12/11	0.52 MGD	NODI Code =
50050	07/31/2011	9/15/11	NODI Code =	0.68 MGD
50050	08/31/2011	9/15/11	0.61 MGD	1.4 MGD
50050	09/30/2011	10/14/11	0.74 MGD	1.2 MGD
50050	10/31/2011	11/12/11	0.76 MGD	1 MGD
50050	11/30/2011	12/14/11	0.64 MGD	0.9 MGD
50050	12/31/2011	1/13/11	0.77 MGD	0.96 MGD
50050	01/31/2012	2/10/12	0.59 MGD	0.8 MGD
50050	02/29/2012	3/13/12	0.54 MGD	0.65 MGD
50050	03/31/2012	4/6/12	0.62 MGD	0.82 MGD
50050	04/30/2012	5/12/12	0.54 MGD	0.72 MGD
50050	05/31/2012	6/14/12	0.71 MGD	0.95 MGD
50050	06/30/2012	7/11/12	0.6 MGD	0.84 MGD
50050	07/31/2012	8/9/12	0.45 MGD	0.54 MGD
50050	08/31/2012	9/15/12	0.51 MGD	0.7 MGD
50050	09/30/2012	5/21/13	0.49 MGD	0.72 MGD
50050	10/31/2012	11/13/12	0.57 MGD	1.3 MGD
50050	11/30/2012	12/11/12	0.62 MGD	1 MGD
50050	12/31/2012	1/15/13	0.59 MGD	1.1 MGD
50050	01/31/2013	2/14/13	0.58 MGD	1 MGD

			Q1	Q2
Pram	MP Dt	Rec Dt	Req. Mon. MGD MO AVG	Req. Mon. MGD DAILY MX
50050	02/28/2013	3/14/13	0.61 MGD	0.94 MGD
50050	03/31/2013	4/11/13	0.72 MGD	1.1 MGD
50050	04/30/2013	5/15/13	0.81 MGD	1.1 MGD
50050	05/31/2013	6/13/13	0.73 MGD	1.1 MGD
50050	06/30/2013	7/15/13	0.87 MGD	1.2 MGD

Nitrogen, ammonia total [as N]

Limit Start Date = 7/1/07

Season = 0

			C1	C3
Pram	MP Dt	Rec Dt	Req. Mon. mg/L MO AVG	Req. Mon. mg/L DAILY MX
00610	01/31/2011	2/11/11	17 mg/L	18 mg/L
00610	02/28/2011	3/11/11	21 mg/L	23 mg/L
00610	03/31/2011	4/15/11	16 mg/L	23 mg/L
00610	04/30/2011	5/13/11	11 mg/L	11 mg/L
00610	05/31/2011	6/10/11	11 mg/L	11 mg/L
00610	06/30/2011	7/11/11	17 mg/L	19 mg/L
00610	07/31/2011	8/12/11	21 mg/L	21 mg/L
00610	08/31/2011	9/15/11	18 mg/L	20 mg/L
00610	09/30/2011	10/14/11	0.25 mg/L	0.3 mg/L
00610	10/31/2011	11/12/11	0.1 mg/L	0.11 mg/L
00610	11/30/2011	12/14/11	4 mg/L	4.9 mg/L
00610	12/31/2011	1/13/11	10 mg/L	10 mg/L
00610	01/31/2012	2/10/12	13 mg/L	13 mg/L
00610	02/29/2012	3/13/12	16 mg/L	19 mg/L
00610	03/31/2012	4/6/12	18 mg/L	18 mg/L
00610	04/30/2012	5/12/12	16 mg/L	16 mg/L

			C1	C3
			Req. Mon. mg/L	Req. Mon. mg/L
			MO AVG	DAILY MX
Pram	MP Dt	Rec Dt		
00610	05/31/2012	6/14/12	19 mg/L	20 mg/L
00610	06/30/2012	7/11/12	24 mg/L	25 mg/L
00610	07/31/2012	8/9/12	20 mg/L	21 mg/L
00610	08/31/2012	9/15/12	1 mg/L	3.3 mg/L
00610	09/30/2012	5/21/13	0.33 mg/L	0.4 mg/L
00610	10/31/2012	11/13/12	1 mg/L	2.2 mg/L
00610	11/30/2012	12/11/12	12 mg/L	14 mg/L
00610	12/31/2012	1/15/13	17 mg/L	18 mg/L
00610	01/31/2013	2/14/13	18.5 mg/L	19 mg/L
00610	02/28/2013	3/14/13	18.2 mg/L	20 mg/L
00610	03/31/2013	4/11/13	19 mg/L	19 mg/L
00610	04/30/2013	5/15/13	13.5 mg/L	15 mg/L
00610	05/31/2013	6/13/13	12.5 mg/L	14 mg/L
00610	06/30/2013	7/15/13	12 mg/L	13 mg/L

pH

Limit Start Date = 7/1/07

Season = 0

			C1	C3
			6.5 SU	8 SU
			MINIMUM	MAXIMUM
Pram	MP Dt	Rec Dt		
00400	01/31/2011	2/11/11	6.9 SU	7.6 SU
00400	02/28/2011	3/11/11	6.9 SU	7.6 SU
00400	03/31/2011	4/15/11	6.7 SU	7.4 SU
00400	04/30/2011	5/13/11	6.8 SU	7.6 SU
00400	05/31/2011	6/10/11	6.9 SU	7.7 SU
00400	06/30/2011	7/11/11	7 SU	7.6 SU
00400	07/31/2011	8/12/11	7.1 SU	7.6 SU

Pram	MP Dt	Rec Dt	C1		C3	
			6.5 SU	8 SU	MAXIMUM	MINIMUM
00400	08/31/2011	9/15/11	6.9 SU	7.5 SU	7.3 SU	7.3 SU
00400	09/30/2011	10/14/11	6.1 SU	7.3 SU	7.3 SU	7.3 SU
00400	10/31/2011	11/12/11	6.6 SU	7.5 SU	7.6 SU	7.6 SU
00400	11/30/2011	12/14/11	6.8 SU	7.6 SU	7.6 SU	7.6 SU
00400	12/31/2011	1/13/12	6.9 SU	7.6 SU	7.6 SU	7.6 SU
00400	01/31/2012	2/10/12	6.8 SU	7.6 SU	7.6 SU	7.6 SU
00400	02/29/2012	3/13/12	7 SU	7.8 SU	7.8 SU	7.8 SU
00400	03/31/2012	4/6/12	7.1 SU	7.8 SU	7.8 SU	7.8 SU
00400	04/30/2012	5/12/12	7.2 SU	7.5 SU	7.5 SU	7.5 SU
00400	05/31/2012	6/14/12	7 SU	7.8 SU	7.8 SU	7.8 SU
00400	06/30/2012	7/11/12	7.1 SU	7.9 SU	7.9 SU	7.9 SU
00400	07/31/2012	8/9/12	6.2 SU	7.4 SU	7.4 SU	7.4 SU
00400	08/31/2012	9/15/12	6.3 SU	7.7 SU	7.7 SU	7.7 SU
00400	09/30/2012	5/21/13	6.9 SU	7.6 SU	7.6 SU	7.6 SU
00400	10/31/2012	11/13/12	6.9 SU	7.7 SU	7.7 SU	7.7 SU
00400	11/30/2012	12/11/12	7 SU	7.6 SU	7.6 SU	7.6 SU
00400	12/31/2012	1/15/13	6.9 SU	7.6 SU	7.6 SU	7.6 SU
00400	01/31/2013	2/14/13	6.7 SU	8 SU	8 SU	8 SU
00400	02/28/2013	3/14/13	6.9 SU	7.7 SU	7.7 SU	7.7 SU
00400	03/31/2013	4/11/13	7 SU	7.9 SU	7.9 SU	7.9 SU
00400	04/30/2013	5/15/13	6.8 SU	7.5 SU	7.5 SU	7.5 SU
00400	05/31/2013	6/13/13	6.9 SU	7.6 SU	7.6 SU	7.6 SU
00400	06/30/2013	7/15/13	7 SU			

Phosphate, ortho. dissolved [as P]
Limit Start Date = 7/1/07

Season = 0

C1

Pram	MP Dt	Rec Dt	Req. Mon. mg/L
			<u>MO AVG</u>
00671	01/31/2011	2/11/11	1.7 mg/L
00671	02/28/2011	3/11/11	1.7 mg/L
00671	03/31/2011	4/15/11	1.3 mg/L
00671	11/30/2011	12/14/11	1.3 mg/L
00671	12/31/2011	1/13/11	1.5 mg/L
00671	01/31/2012	2/10/12	1.5 mg/L
00671	02/29/2012	3/13/12	1.5 mg/L
00671	03/31/2012	4/6/12	1.7 mg/L
00671	11/30/2012	12/11/12	1.2 mg/L
00671	12/31/2012	1/15/13	1.2 mg/L
00671	01/31/2013	2/14/13	0.01 mg/L
00671	02/28/2013	3/14/13	0.01 mg/L
00671	03/31/2013	4/11/13	1.1 mg/L

Phosphorus, total [as P]
Limit Start Date = 7/1/07

Season = 0

Pram	MP Dt	Rec Dt	Req. Mon. mg/L
			<u>MO AVG</u>
00665	04/30/2013	5/15/13	NODI Code = 2
00665	05/31/2013	6/13/13	NODI Code = 2
00665	06/30/2013	7/15/13	NODI Code = 2

Season = 1

Pram	MP Dt	Rec Dt	Req. Mon. mg/L
			<u>MO AVG</u>
C1			1 mg/L

FINAL LIMITS (PERMIT)

OPERATIONS SHUT DOWN

C1				
Pram	MP Dt	Rec Dt	MO AVG	1 mg/L
00665	01/31/2013	2/14/13	0.77 mg/L	
00665	02/28/2013	3/14/13	1.1 mg/L	
00665	03/31/2013	4/11/13		

NODI Code = 2

← OPERATIONS SHUTDOWN

Limit Start Date = 3/6/09

Season = 0

C1					C3	
Pram	MP Dt	Rec Dt	MO AVG	3.7 mg/L	Req. Mon. mg/L	DAILY MX
00665	04/30/2011	5/13/11	1.3 mg/L		1.4 mg/L	
00665	05/31/2011	6/10/11	1.4 mg/L		1.9 mg/L	
00665	06/30/2011	7/11/11	2.5 mg/L		2.8 mg/L	
00665	07/31/2011	8/12/11	2.4 mg/L		2.4 mg/L	
00665	08/31/2011	9/15/11	2.3 mg/L		2.4 mg/L	
00665	09/30/2011	10/14/11	1.6 mg/L		1.7 mg/L	
00665	10/31/2011	11/12/11	1.4 mg/L		1.6 mg/L	
00665	04/30/2012	5/12/12	2.5 mg/L		2.7 mg/L	
00665	05/31/2012	6/14/12	2.9 mg/L		3.1 mg/L	
00665	06/30/2012	7/11/12	2.8 mg/L		3.2 mg/L	
00665	07/31/2012	8/9/12	2.5 mg/L		NODI Code =	
00665	07/31/2012		NODI Code =		NODI Code =	
00665	08/31/2012	9/15/12	1.9 mg/L		NODI Code =	
00665	08/31/2012		NODI Code =		NODI Code =	
00665	09/30/2012	5/21/13	1 mg/L		1.1 mg/L	
00665	10/31/2012	11/13/12	1.4 mg/L		NODI Code =	
00665	10/31/2012	5/21/13	NODI Code =		1.6 mg/L	

Season = 1

INTERIM LIMIT
EFFLUENT

Pram	MP Dt	Rec Dt	C1		C3	
			3.1 mg/L	MO AVG	Req. Mon. mg/L	DAILY MX
00665	01/31/2011	2/11/11	2.7 mg/L		2.9 mg/L	
00665	02/28/2011	3/11/11	2.8 mg/L		2.9 mg/L	
00665	03/31/2011	4/15/11	2.2 mg/L		2.8 mg/L	
00665	11/30/2011	12/14/11	1.7 mg/L		2.1 mg/L	
00665	12/31/2011	1/13/11	2 mg/L		2.1 mg/L	
00665	01/31/2012	2/10/12	2 mg/L		2 mg/L	
00665	02/29/2012	3/13/12	2.1 mg/L		2.3 mg/L	
00665	03/31/2012	4/6/12	2.4 mg/L		2.5 mg/L	
00665	11/30/2012	12/11/12	1.6 mg/L		NODI Code =	
00665	11/30/2012	5/21/13	NODI Code =		1.9 mg/L	
00665	12/31/2012	1/15/13	2.2 mg/L		2.3 mg/L	

Solids, total suspended

Limit Start Date = 7/1/07

Season = 0

Pram	MP Dt	Rec Dt	Q1		Q2	C1		C2	C3	
			325 lb/d	MO AVG		30 mg/L	MO AVG		45 mg/L	WEEKLY AVG
00530	01/31/2011	2/11/11	49 lb/d		542 lb/d	12 mg/L		14 mg/L	50 mg/L	DAILY MX
00530	02/28/2011	3/11/11	47 lb/d		56 lb/d	12 mg/L		14 mg/L	14 mg/L	
00530	03/31/2011	4/15/11	78 lb/d		127 lb/d	11 mg/L		16 mg/L	16 mg/L	
00530	04/30/2011	5/13/11	99 lb/d		128 lb/d	12 mg/L		14 mg/L	14 mg/L	
00530	05/31/2011	6/10/11	78 lb/d		117 lb/d	12 mg/L		18 mg/L	18 mg/L	
00530	06/30/2011	7/11/11	32 lb/d		56 lb/d	5 mg/L		11 mg/L	11 mg/L	
00530	07/31/2011	8/12/11	60 lb/d		73 lb/d	12 mg/L		14 mg/L	14 mg/L	
00530	08/31/2011	9/15/11	62 lb/d		83 lb/d	15 mg/L		20 mg/L	20 mg/L	
00530	09/30/2011	10/14/11	115 lb/d		160 lb/d	17 mg/L		22 mg/L	22 mg/L	
00530	10/31/2011	11/12/11	55 lb/d		108 lb/d	8 mg/L		15 mg/L	15 mg/L	

Pram	MP Dt	Rec Dt	Q1 325 lb/d MO AVG	Q2 542 lb/d DAILY MX	C1 30 mg/L MO AVG	C2 45 mg/L WKLY AVG	C3 50 mg/L DAILY MX
00530	11/30/2011	12/14/11	14 lb/d	21 lb/d	3 mg/L	4 mg/L	4 mg/L
00530	12/31/2011	1/13/12	76 lb/d	85 lb/d	11 mg/L	15 mg/L	15 mg/L
00530	01/31/2012	2/10/12	59 lb/d	67 lb/d	12 mg/L	13 mg/L	13 mg/L
00530	02/29/2012	3/13/12	72 lb/d	83 lb/d	16 mg/L	16 mg/L	16 mg/L
00530	03/31/2012	4/6/12	94 lb/d	128 lb/d	18 mg/L	26 mg/L	26 mg/L
00530	04/30/2012	5/12/12	112 lb/d	135 lb/d	26 mg/L	30 mg/L	30 mg/L
00530	05/31/2012	6/14/12	55 lb/d	119 lb/d	9 mg/L	22 mg/L	22 mg/L
00530	06/30/2012	7/11/12	21 lb/d	44 lb/d	4 mg/L	9 mg/L	9 mg/L
00530	07/31/2012	8/9/12	82 lb/d	143 lb/d	21 mg/L	33 mg/L	33 mg/L
00530	08/31/2012	9/15/12	104 lb/d	149 lb/d	25 mg/L	33 mg/L	33 mg/L
00530	09/30/2012	5/21/13	67 lb/d	86 lb/d	16 mg/L	21 mg/L	21 mg/L
00530	10/31/2012	11/13/12	23 lb/d	30 lb/d	5 mg/L	7 mg/L	7 mg/L
00530	11/30/2012	12/11/12	26 lb/d	33 lb/d	5 mg/L	6 mg/L	6 mg/L
00530	12/31/2012	1/15/13	61 lb/d	102 lb/d	13 mg/L	20 mg/L	20 mg/L
00530	01/31/2013	2/14/13	125 lb/d	384 lb/d	20 mg/L	20 mg/L	46 mg/L
00530	01/31/2013	2/27/13	NODI Code =	NODI Code =	NODI Code =	NODI Code =	NODI Code =
00530	02/28/2013	3/14/13	188 lb/d	216 lb/d	37 mg/L	48 mg/L	48 mg/L
00530	03/31/2013	4/11/13	175 lb/d	237 lb/d	30 mg/L	40 mg/L	40 mg/L
00530	04/30/2013	5/15/13	155 lb/d	205 lb/d	22 mg/L	30 mg/L	30 mg/L
00530	05/31/2013	6/13/13	162 lb/d	388 lb/d	26 mg/L	48 mg/L	48 mg/L
00530	06/30/2013	7/15/13	124 lb/d	150 lb/d	14 mg/L	NODI Code =	15 mg/L
00530	06/30/2013	7/25/13	NODI Code =	NODI Code =	NODI Code =	24 mg/L	NODI Code =

Monitoring Location = G

BOD. 5-day. 20 deg. C

Limit Start Date = 7/1/07

Season = 0

C1				Req. Mon. mg/L
Pram	MP Dt	Rec Dt	MO AVG	
00310	01/31/2011	2/11/11	232 mg/L	
00310	02/28/2011	3/11/11	230 mg/L	
00310	03/31/2011	4/15/11	170 mg/L	
00310	04/30/2011	5/13/11	121 mg/L	
00310	05/31/2011	6/10/11	149 mg/L	
00310	06/30/2011	7/11/11	223 mg/L	
00310	07/31/2011	8/12/11	231 mg/L	
00310	08/31/2011	9/15/11	272 mg/L	
00310	09/30/2011	10/14/11	198 mg/L	
00310	10/31/2011	11/12/11	186 mg/L	
00310	11/30/2011	12/14/11	217 mg/L	
00310	12/31/2011	1/13/12	184 mg/L	
00310	01/31/2012	2/10/12	202 mg/L	
00310	02/29/2012	3/13/12	197 mg/L	
00310	03/31/2012	4/6/12	206 mg/L	
00310	04/30/2012	5/12/12	186 mg/L	
00310	05/31/2012	6/14/12	198 mg/L	
00310	06/30/2012	7/11/12	222 mg/L	
00310	07/31/2012	8/9/12	243 mg/L	
00310	08/31/2012	9/15/12	233 mg/L	
00310	09/30/2012	5/21/13	296 mg/L	
00310	10/31/2012	11/13/12	285 mg/L	
00310	11/30/2012	12/11/12	216 mg/L	
00310	12/31/2012	1/15/13	178 mg/L	
00310	01/31/2013	2/14/13	218 mg/L	
00310	02/28/2013	3/14/13	247 mg/L	
00310	03/31/2013	4/11/13	180 mg/L	
00310	04/30/2013	5/15/13	170 mg/L	
00310	05/31/2013	6/13/13	174 mg/L	
00310	06/30/2013	7/15/13	148 mg/L	

Solids total suspended

WATER QUALITY SUMMARY

Limit Start Date = 7/1/07

Season = 0

C1			Req. Mon. mg/L
Pram	MP Dt	Rec Dt	MO AVG
00530	01/31/2011	2/11/11	255 mg/L
00530	02/28/2011	3/11/11	299 mg/L
00530	03/31/2011	4/15/11	218 mg/L
00530	04/30/2011	5/13/11	185 mg/L
00530	05/31/2011	6/10/11	206 mg/L
00530	06/30/2011	7/11/11	365 mg/L
00530	07/31/2011	8/12/11	353 mg/L
00530	08/31/2011	9/15/11	401 mg/L
00530	09/30/2011	10/14/11	275 mg/L
00530	10/31/2011	11/12/11	293 mg/L
00530	11/30/2011	12/14/11	284 mg/L
00530	12/31/2011	1/13/12	255 mg/L
00530	01/31/2012	2/10/12	305 mg/L
00530	02/29/2012	3/13/12	260 mg/L
00530	03/31/2012	4/6/12	335 mg/L
00530	04/30/2012	5/12/12	320 mg/L
00530	05/31/2012	6/14/12	316 mg/L
00530	06/30/2012	7/11/12	319 mg/L
00530	07/31/2012	8/9/12	356 mg/L
00530	08/31/2012	9/15/12	419 mg/L
00530	09/30/2012	5/21/13	481 mg/L
00530	10/31/2012	11/13/12	479 mg/L
00530	11/30/2012	12/11/12	297 mg/L
00530	12/31/2012	1/15/13	248 mg/L
00530	01/31/2013	2/14/13	335 mg/L
00530	02/28/2013	3/19/13	330 mg/L
00530	03/31/2013	4/11/13	262 mg/L

C1				Req. Mon. mg/L
Pram	MP Dt	Rec Dt	MO AVG	
00530	04/30/2013	5/15/13	233	mg/L
00530	05/31/2013	6/13/13	302	mg/L
00530	06/30/2013	7/15/13	223	mg/L

Monitoring Location = K

BOD, 5-day, percent removal

Limit Start Date = 7/1/07

Season = 0

C1				85 %
Pram	MP Dt	Rec Dt	MO AV MN	
81010	01/31/2011	2/11/11	95	%
81010	02/28/2011	3/11/11	95	%
81010	03/31/2011	4/15/11	91	%
81010	04/30/2011	5/13/11	94	%
81010	05/31/2011	6/10/11	95	%
81010	06/30/2011	7/11/11	98	%
81010	07/31/2011	8/12/11	99	%
81010	08/31/2011	9/15/11	99	%
81010	09/30/2011	10/14/11	98	%
81010	10/31/2011	11/12/11	99	%
81010	11/30/2011	12/14/11	98	%
81010	12/31/2011	1/13/11	96	%
81010	01/31/2012	2/10/12	95	%
81010	02/29/2012	3/13/12	95	%
81010	03/31/2012	4/6/12	95	%
81010	04/30/2012	5/12/12	94	%

C1				85 %	
Pram	MP Dt	Rec Dt	MO	AV	MN
81010	05/31/2012	6/14/12		97 %	
81010	06/30/2012	7/11/12		99 %	
81010	07/31/2012	8/9/12		97 %	
81010	08/31/2012	9/15/12		98 %	
81010	09/30/2012	5/21/13		99 %	
81010	10/31/2012	11/13/12		99 %	
81010	11/30/2012	12/11/12		98 %	
81010	12/31/2012	1/15/13		95 %	
81010	01/31/2013	2/14/13		97 %	
81010	02/28/2013	3/14/13		96 %	
81010	03/31/2013	4/11/13		90 %	
81010	04/30/2013	5/15/13		91 %	
81010	05/31/2013	6/13/13		92 %	
81010	06/30/2013	7/15/13		94 %	

Solids, suspended percent removal

Limit Start Date = 7/1/07

Season = 0

C1				85 %	
Pram	MP Dt	Rec Dt	MO	AV	MN
81011	01/31/2011	2/11/11		95 %	
81011	02/28/2011	3/11/11		96 %	
81011	03/31/2011	4/15/11		95 %	
81011	04/30/2011	5/13/11		93 %	
81011	05/31/2011	6/10/11		94 %	
81011	06/30/2011	7/11/11		99 %	
81011	07/31/2011	8/12/11		97 %	

Pram	MP Dt	Rec Dt	C1	
			85 %	MO AV MN
81011	08/31/2011	9/15/11	96 %	
81011	09/30/2011	10/14/11	94 %	
81011	10/31/2011	11/12/11	97 %	
81011	11/30/2011	12/14/11	99 %	
81011	12/31/2011	1/13/11	96 %	
81011	01/31/2012	2/10/12	96 %	
81011	02/29/2012	3/13/12	94 %	
81011	03/31/2012	4/6/12	95 %	
81011	04/30/2012	5/12/12	92 %	
81011	05/31/2012	6/14/12	97 %	
81011	06/30/2012	7/11/12	99 %	
81011	07/31/2012	8/9/12	94 %	
81011	08/31/2012	9/15/12	94 %	
81011	09/30/2012	5/21/13	97 %	
81011	10/31/2012	11/13/12	99 %	
81011	11/30/2012	12/11/12	98 %	
81011	12/31/2012	1/15/13	95 %	
81011	01/31/2013	2/14/13	94 %	
81011	02/28/2013	3/14/13	89 %	
81011	03/31/2013	4/11/13	89 %	
81011	04/30/2013	5/15/13	90 %	
81011	05/31/2013	6/13/13	91 %	
81011	06/30/2013	7/15/13	94 %	

Monitoring Location = O
BOD, 5-day, 20 deg. C
 Limit Start Date = 7/1/07

Season = U

Prm	MP Dt	Rec Dt	Q1	
			488 lb/d	WKLY AVG
00310	01/31/2011	2/11/11	55 lb/d	
00310	02/28/2011	3/11/11	48 lb/d	
00310	03/31/2011	4/15/11	192 lb/d	
00310	04/30/2011	5/13/11	92 lb/d	
00310	05/31/2011	6/10/11	69 lb/d	
00310	06/30/2011	7/11/11	48 lb/d	
00310	07/31/2011	8/12/11	32 lb/d	
00310	08/31/2011	9/15/11	21 lb/d	
00310	09/30/2011	10/14/11	60 lb/d	
00310	10/31/2011	11/12/11	22 lb/d	
00310	11/30/2011	12/14/11	37 lb/d	
00310	12/31/2011	1/13/12	63 lb/d	
00310	01/31/2012	2/10/12	52 lb/d	
00310	02/29/2012	3/13/12	58 lb/d	
00310	03/31/2012	4/6/12	67 lb/d	
00310	04/30/2012	5/12/12	62 lb/d	
00310	05/31/2012	6/14/12	54 lb/d	
00310	06/30/2012	7/11/12	16 lb/d	
00310	07/31/2012	8/9/12	43 lb/d	
00310	08/31/2012	9/15/12	26 lb/d	
00310	09/30/2012	5/21/13	20 lb/d	
00310	10/31/2012	11/13/12	13 lb/d	
00310	11/30/2012	12/11/12	29 lb/d	
00310	12/31/2012	1/15/13	52 lb/d	
00310	01/31/2013	2/14/13	63 lb/d	
00310	02/28/2013	3/14/13	75 lb/d	
00310	03/31/2013	4/11/13	170 lb/d	
00310	04/30/2013	5/15/13	150 lb/d	
00310	05/31/2013	6/13/13	105 lb/d	
00310	06/30/2013	7/15/13	83 lb/d	

Solids, total suspended

Limit Start Date = 7/1/07

Season = 0

Pram	MP Dt	Rec Dt	Q1	
			488 lb/d	WKLY AVG
00530	01/31/2011	2/11/11	55 lb/d	55 lb/d
00530	02/28/2011	3/11/11	56 lb/d	127 lb/d
00530	03/31/2011	4/15/11	128 lb/d	117 lb/d
00530	04/30/2011	5/13/11	117 lb/d	56 lb/d
00530	05/31/2011	6/10/11	73 lb/d	83 lb/d
00530	06/30/2011	7/11/11	160 lb/d	110 lb/d
00530	07/31/2011	8/12/11	21 lb/d	95 lb/d
00530	08/31/2011	9/15/11	67 lb/d	58 lb/d
00530	09/30/2011	10/14/11	128 lb/d	135 lb/d
00530	10/31/2011	11/12/11	119 lb/d	44 lb/d
00530	11/30/2011	12/14/11	143 lb/d	149 lb/d
00530	12/31/2011	1/13/12	86 lb/d	30 lb/d
00530	01/31/2012	2/10/12	33 lb/d	102 lb/d
00530	02/29/2012	3/13/12	102 lb/d	102 lb/d
00530	03/31/2012	4/6/12	384 lb/d	
00530	04/30/2012	5/12/12		
00530	05/31/2012	6/14/12		
00530	06/30/2012	7/11/12		
00530	07/31/2012	8/9/12		
00530	08/31/2012	9/15/12		
00530	09/30/2012	5/21/13		
00530	10/31/2012	11/13/12		
00530	11/30/2012	12/11/12		
00530	12/31/2012	1/15/13		
00530	01/31/2013	2/14/13		
00530	02/28/2013	3/14/13		

Q1				488 lb/d
Pram	MP Dt	Rec Dt	WKLY AVG	
00530	03/31/2013	4/11/13	237 lb/d	
00530	04/30/2013	5/15/13	205 lb/d	
00530	05/31/2013	6/13/13	388 lb/d	
00530	06/30/2013	7/15/13	150 lb/d	

001B

Monitoring Location = 1

Aluminum, total recoverable

Limit Start Date = 7/1/07

Season = 0

C3				Req. Mon. mg/L
Pram	MP Dt	Rec Dt	DAILY MX	
01104	03/31/2011	4/15/11	0.11 mg/L	
01104	06/30/2011	7/11/11	0.08 mg/L	
01104	09/30/2011	10/14/11	0.22 mg/L	
01104	12/31/2011	1/13/11	0.08 mg/L	
01104	03/31/2012	4/6/12	0.09 mg/L	
01104	06/30/2012	4/10/13	0.05 mg/L	
01104	09/30/2012	4/10/13	0.17 mg/L	
01104	12/31/2012	1/15/13	0.15 mg/L	
01104	03/31/2013	4/11/13	3.2 mg/L	
01104	06/30/2013	7/15/13	0.06 mg/L	

Cadmium, total recoverable

Limit Start Date = / /

Season = 0

C3				Req. Mon. mg/L
Pram	MP Dt	Rec Dt	DAILY MX	
01113	03/31/2011	4/15/11	0	mg/L
01113	06/30/2011	7/11/11	0	mg/L
01113	09/30/2011	10/14/11	0	mg/L
01113	12/31/2011	1/13/11	0	mg/L
01113	03/31/2012	4/6/12	0	mg/L
01113	06/30/2012	4/10/13	0	mg/L
01113	09/30/2012	4/10/13	0	mg/L
01113	12/31/2012	1/15/13	0	mg/L
01113	03/31/2013	4/11/13	0	mg/L
01113	06/30/2013	7/15/13	0	mg/L

Chromium, total recoverable

Limit Start Date = 7/1/07

Season = 0

C3				Req. Mon. mg/L
Pram	MP Dt	Rec Dt	DAILY MX	
01118	03/31/2011	4/15/11	0.01	mg/L
01118	06/30/2011	7/11/11	0.01	mg/L
01118	09/30/2011	10/14/11	0.01	mg/L
01118	12/31/2011	1/13/11	0.01	mg/L
01118	03/31/2012	4/6/12	0.01	mg/L
01118	06/30/2012	4/10/13	0.01	mg/L
01118	09/30/2012	4/10/13	0.01	mg/L

C3				Req. Mon. mg/L
Pram	MP Dt	Rec Dt	DAILY MX	
01118	12/31/2012	1/15/13	0.01 mg/L	
01118	03/31/2013	4/11/13	0.01 mg/L	
01118	06/30/2013	7/15/13	0 mg/L	

Copper, total recoverable

Limit Start Date = 7/1/07

Season = 0

C3				Req. Mon. mg/L
Pram	MP Dt	Rec Dt	DAILY MX	
01119	03/31/2011	4/15/11	0.01 mg/L	
01119	06/30/2011	7/11/11	0.06 mg/L	
01119	09/30/2011	10/14/11	0.01 mg/L	
01119	12/31/2011	1/13/11	0 mg/L	
01119	03/31/2012	4/6/12	0.01 mg/L	
01119	06/30/2012	4/10/13	0.01 mg/L	
01119	09/30/2012	4/10/13	0.02 mg/L	
01119	12/31/2012	1/15/13	0 mg/L	
01119	03/31/2013	4/11/13	0.01 mg/L	
01119	06/30/2013	7/15/13	0.01 mg/L	

Hardness, total [as CaCO3]

Limit Start Date = 7/1/07

Season = 0

C3			
Pram	MP Dt	Rec Dt	Req. Mon. mg/L
00900	03/31/2011	4/15/11	DAILY MX
00900	06/30/2011	7/11/11	40 mg/L
00900	09/30/2011	10/14/11	47 mg/L
00900	12/31/2011	1/13/11	42 mg/L
00900	03/31/2012	4/6/12	46 mg/L
00900	06/30/2012	4/10/13	43 mg/L
00900	09/30/2012	4/10/13	41 mg/L
00900	12/31/2012	1/15/13	41 mg/L
00900	03/31/2013	4/11/13	30 mg/L
00900	06/30/2013	7/15/13	39 mg/L
			48 mg/L

LC50 Static 48Hr Acute Ceriodaphnia

Limit Start Date = 7/1/07

Season = 0

C1			
Pram	MP Dt	Rec Dt	100 %
TAA3B	03/31/2011	4/15/11	DAILY MN
TAA3B	06/30/2011	7/11/11	100 %
TAA3B	09/30/2011	10/14/11	100 %
TAA3B	12/31/2011	1/13/11	100 %
TAA3B	03/31/2012	4/6/12	100 %
TAA3B	06/30/2012	4/10/13	100 %
TAA3B	09/30/2012	4/10/13	100 %
TAA3B	12/31/2012	1/15/13	100 %
TAA3B	03/31/2013	4/11/13	100 %
TAA3B	06/30/2013	7/15/13	100 %

LC50 Static 48Hr Acute Pimephales

Limit Start Date = 7/1/07

Season = 0

C1			
		100 %	
Pram	MP Dt	Rec Dt	DAILY MN
TAA6C	03/31/2011	4/15/11	100 %
TAA6C	06/30/2011	7/11/11	100 %
TAA6C	09/30/2011	10/14/11	100 %
TAA6C	12/31/2011	1/13/11	100 %
TAA6C	03/31/2012	4/6/12	100 %
TAA6C	06/30/2012	4/10/13	100 %
TAA6C	09/30/2012	4/10/13	100 %
TAA6C	12/31/2012	1/15/13	100 %
TAA6C	03/31/2013	4/11/13	100 %
TAA6C	06/30/2013	7/15/13	100 %

Lead. total recoverable

Limit Start Date = 7/1/07

Season = 0

C3			
		Req. Mon. mg/L	
Pram	MP Dt	Rec Dt	DAILY MX
01114	03/31/2011	4/15/11	0 mg/L
01114	06/30/2011	7/11/11	0 mg/L
01114	09/30/2011	10/14/11	0.01 mg/L
01114	12/31/2011	1/13/11	0 mg/L
01114	03/31/2012	4/6/12	0 mg/L

C3			
Pram	MP Dt	Rec Dt	Req. Mon. mg/L DAILY MX
01114	06/30/2012	4/10/13	0 mg/L
01114	09/30/2012	4/10/13	0 mg/L
01114	12/31/2012	1/15/13	0 mg/L
01114	03/31/2013	4/11/13	0 mg/L
01114	06/30/2013	7/15/13	0 mg/L

Nickel, total recoverable

Limit Start Date = 7/1/07

Season = 0

C3			
Pram	MP Dt	Rec Dt	Req. Mon. mg/L DAILY MX
01074	03/31/2011	4/15/11	0.08 mg/L
01074	06/30/2011	7/11/11	0.04 mg/L
01074	09/30/2011	10/14/11	0.06 mg/L
01074	12/31/2011	1/13/11	0.05 mg/L
01074	03/31/2012	4/6/12	0.07 mg/L
01074	06/30/2012	4/10/13	0.08 mg/L
01074	09/30/2012	4/10/13	0.07 mg/L
01074	12/31/2012	1/15/13	0.06 mg/L
01074	03/31/2013	4/11/13	0.05 mg/L
01074	06/30/2013	7/15/13	0.03 mg/L

Nitrogen, ammonia total [as N]

Limit Start Date = 7/1/07

Season = 0

C3			Req. Mon. mg/L
<u>Pram</u>	<u>MP Dt</u>	<u>Rec Dt</u>	<u>DAILY MX</u>
00610	03/31/2011	4/15/11	23 mg/L
00610	06/30/2011	7/11/11	19 mg/L
00610	09/30/2011	10/14/11	20 mg/L
00610	12/31/2011	1/13/11	4.4 mg/L
00610	03/31/2012	4/6/12	19 mg/L
00610	06/30/2012	4/10/13	20 mg/L
00610	09/30/2012	4/10/13	3.3 mg/L
00610	12/31/2012	1/15/13	14 mg/L
00610	03/31/2013	4/11/13	18 mg/L
00610	06/30/2013	7/15/13	11 mg/L

Noel Statre 7Day Chronic Ceriodaphnia

Limit Start Date = 7/1/07

Season = 0

C1			13.3 %
<u>Pram</u>	<u>MP Dt</u>	<u>Rec Dt</u>	<u>DAILY MN</u>
TBP3B	03/31/2011	4/15/11	51 %
TBP3B	06/30/2011	7/11/11	6.8 %
TBP3B	09/30/2011	10/14/11	6.8 %
TBP3B	12/31/2011	1/13/11	100 %
TBP3B	03/31/2012	4/6/12	51 %
TBP3B	06/30/2012	4/10/13	51 %
TBP3B	09/30/2012	4/10/13	6.8 %
TBP3B	12/31/2012	1/15/13	26 %
TBP3B	03/31/2013	4/11/13	26 %
TBP3B	06/30/2013	7/15/13	51 %

Noel Statre 7Day Chronic Pimephales

Limit Start Date = 7/1/07

Season = 0

C1			
13.3 %			
Pram	MP Dt	Rec Dt	DAILY MN
TBP6C	03/31/2011	4/15/11	51 %
TBP6C	06/30/2011	7/11/11	51 %
TBP6C	09/30/2011	10/14/11	51 %
TBP6C	12/31/2011	1/13/11	100 %
TBP6C	03/31/2012	4/6/12	100 %
TBP6C	06/30/2012	4/10/13	26 %
TBP6C	09/30/2012	4/10/13	100 %
TBP6C	12/31/2012	1/15/13	100 %
TBP6C	03/31/2013	4/11/13	51 %
TBP6C	06/30/2013	7/15/13	51 %

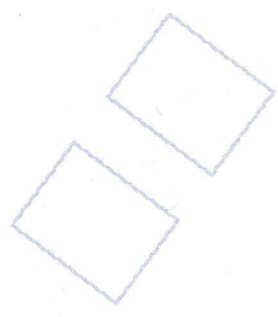
Zinc. total recoverable

Limit Start Date = 7/1/07

Season = 0

C3			
Req. Mon. mg/L			
Pram	MP Dt	Rec Dt	DAILY MX
01094	03/31/2011	4/15/11	0.04 mg/L
01094	06/30/2011	7/11/11	0.02 mg/L
01094	09/30/2011	10/14/11	0.01 mg/L
01094	12/31/2011	1/13/11	0.02 mg/L

C3				Req. Mon. mg/L
Pram	MP Dt	Rec Dt	DAILY MX	
01094	03/31/2012	4/6/12	0.03 mg/L	
01094	06/30/2012	4/10/13	0.02 mg/L	
01094	09/30/2012	4/10/13	0.03 mg/L	
01094	12/31/2012	1/15/13	0.01 mg/L	
01094	03/31/2013	4/11/13	0.02 mg/L	
01094	06/30/2013	7/15/13	0.02 mg/L	





TOWN OF NEWPORT, N.H.

July 16, 2013

Sent via Certified Mail and Fax

Ms. Susan Studlien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
Boston, MA 02109

Re: NPDES Permit No. NH0100200
Administrative Order Docket No. 09-015
Town of Newport Wastewater Treatment Plant Upgrade
Quarterly Report

Dear Ms. Studlien:

As required by the EPA's Administrative Order (AO), please find the following quarterly report on the status of the Town's Wastewater Treatment Facility Upgrade for the April to June 2013 period.

1. Penta Corporation's subcontractor Blueleaf, Inc. was onsite in March and April to test several different coagulants and to investigate filter performance issues. Blueleaf, Inc. prepared a report on April 16, 2013 summarizing the tests and the tests results. In the report, Blueleaf, Inc. hypothesized several possible issues which could be contributing to the filter performance issues.

On April 23, 2013, Town staff met with NHDES officials to discuss possible options to resolve the filter performance issues.

The Town and NHDES officials tested the filters to investigate filter performance and other coagulants. The tests provided additional information, but no solutions.

The NHDES has scheduled a meeting with the Town, AECOM (project engineer) and Penta Corporation (project contractor) on July 22, 2013 to discuss the project's status and resolution of the start-up issues.

2. With regards to Whole Effluent Toxicity:

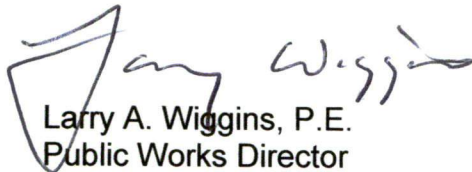
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3. The infiltration and inflow study is ongoing. The Public Works Department will continue the sewer system evaluation by constructing additional sewer manholes, continuing with the infiltration and inflow testing and evaluation of the sewer system with sewer video.

The Town will keep NHDES and EPA apprised of the situation and any significant events relative to project status when more substantial information is known.

If you need further information or have any questions, please call me at (603) 863-3650.

Respectfully,



Larry A. Wiggins, P.E.
Public Works Director
Town of Newport, NH

LAW/jas

cc: Tracy Wood, P.E., NHDES (Water Engineering Bureau-Compliance, PO Box 95, Concord, NH 03302-0095)
P. Brown, Town Manager
A. Greenleaf, Wastewater Treatment Plant Superintendent
R. Naylor, Water & Sewer Superintendent
T. Seigle, (NHDES, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095)
A. Fulton, Esq. (Gardner, Fulton & Waugh, P.L.L.C. - 78 Bank Street, Lebanon, NH 03766-1727)

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FAX EPA - 617-918-0700
EPA - CERTIFIED MAIL: 7012 2210 0002 0519 2626
NHDES - CERTIFIED MAIL: 7012 2210 0002 0519 2633



TOWN OF NEWPORT, N.H.

FAX TRANSMISSION

DATE:

July 17, 2013

FAX TO:

USEPA - Region 1

ATTN:

Susan Studien, Director

FAX NO.:

617-918-0700

FROM:

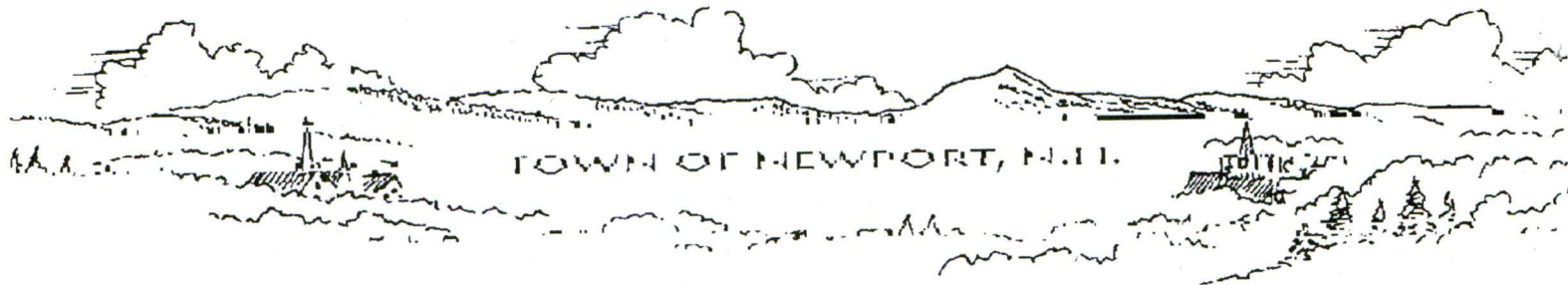
Harry A. Wiggins, Director

NEWPORT Public Works DEPARTMENT

FAX NO.:

603-863-8015

FAX TRANSMISSION REGARDING:



July 16, 2013

Ms. Susan Studien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
1500 Water Street, NE
Boston, MA 02109

Re: NPDES Permit No. NH0100200
Administrative Order Decision No. 00-046
Town of Newport Wastewater Treatment Plant Upgrade
Quarterly Report

Dear Ms. Studien:

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The Town will keep NHDES and EPA apprised of the situation and any significant events relative to project status when more substantial information is known.

If you need further information or have any questions, please call me at (603) 863-3650.

Respectfully,



Larry A. Wiggins, P.E.
Public Works Director
Town of Newport, NH

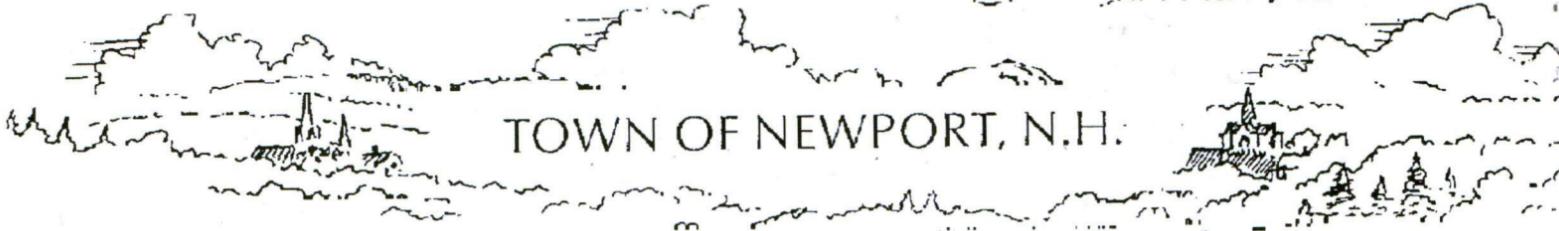
LAW/jas

cc: Tracy Wood, P.E., NHDES (Water Engineering Bureau-Compliance, PO Box 95, Concord, NH 03302-0095)
P. Brown, Town Manager
A. Greenleaf, Wastewater Treatment Plant Superintendent
R. Naylor, Water & Sewer Superintendent
T. Seigle, (NHDES, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095)
A. Fulton, Esq. (Gardner, Fulton & Waugh, P.L.L.C. - 78 Bank Street, Lebanon, NH 03766-1727)

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FAX EPA - 617-918-0700
EPA - CERTIFIED MAIL: 7012 2210 0002 0519 2626
NHDES - CERTIFIED MAIL: 7012 2210 0002 0519 2633

3rd Attempt



TOWN OF NEWPORT, N.H.

JUL 10, 2013

Sent via Certified Mail and Fax

Ms. Susan Studlien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
Boston, MA 02109

Re: NPDES Permit No. NH0100200
Administrative Order Docket No. 09-015
Town of Newport Wastewater Treatment Plant Upgrade
Quarterly Report

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TOWN OF NEWPORT, N.H.

FAX TRANSMISSION

DATE:

April 29, 2013

FAX TO:

USEPA - Region 1

ATTN:

Susan Studlien, Director

FAX NO.:

617-918-0700

FROM:

Larry A. Wiggins, Director

NEWPORT Public Works DEPARTMENT

FAX NO.:

603-863-8015

FAX TRANSMISSION REGARDING:

NPDES Permit No. NH0100200

Administrative Order Docket# 09-015

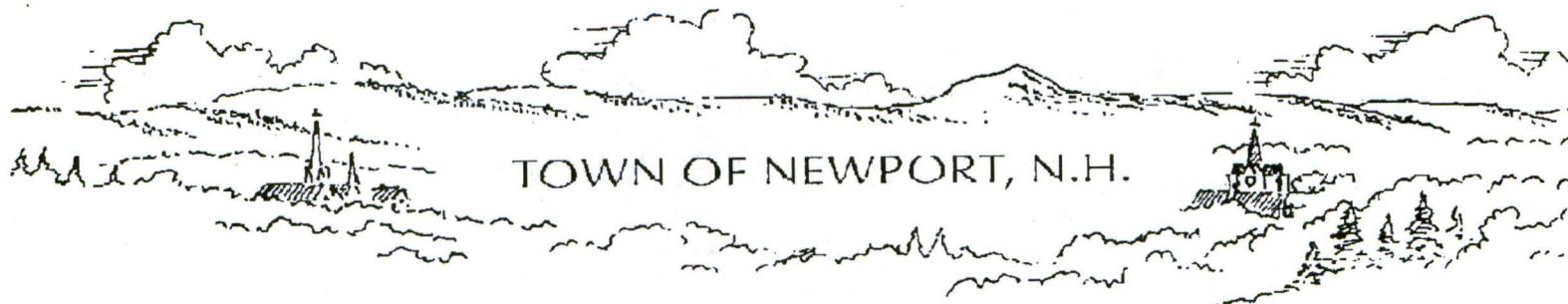
Newport WWTP Upgrade

Quarterly Report

PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 603-863-3650 IF YOU DO NOT RECEIVE ALL PAGES OR HAVE ANY QUESTIONS REGARDING THIS DOCUMENT.

TOTAL PAGES INCLUDING THIS COVER PAGE 3

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April 29, 2013

Sent via Certified Mail and Fax

Ms. Susan Studlien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
Boston, MA 02109

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Administrative Order Docket No. 09-015
Town of Newport Wastewater Treatment Plant Upgrade
Quarterly Report

Dear Ms. Studlien:

As required by the EPA's Administrative Order (AO), please find the following quarterly report on the status of the Town's Wastewater Treatment Facility Upgrade for the January to March 2013 period.

1. Construction of the Town of Newport's Phosphorus Removal Upgrade Project is complete (with the exception of punchlist items). The project is currently in startup mode but is nonoperational due to unresolved issues. The Town is currently working with the New Hampshire Department of Environmental Services, AECOM (the Town's Consultant) and Penta Corporation (Project Contractor) to determine a resolution.
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Ms. Susan Studien, Director
USEPA Office of Environmental Stewardship
WWTP Phosphorus Removal Upgrade (AO 09-015)

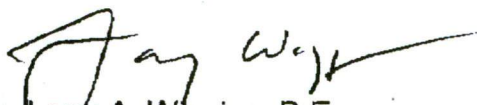
April 29, 2013
Quarterly Report
Page 2 of 2

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Respectfully,



Larry A. Wiggins, P.E.
Public Works Director
Town of Newport, NH

LAW/jas

cc: Tracy Wood, P.E., NHDES (Water Engineering Bureau-Compliance, PO Box 95, Concord, NH 03302-0095)
P. Brown, Town Manager
A. Greenleaf, Wastewater Treatment Plant Superintendent
R. Naylor, Water & Sewer Superintendent
T. Seigle, (NHDES, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095)

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FAX EPA - 617-918-0700

EPA - CERTIFIED Mail: 7012-2210-0002-0519-2565

NHDES - CERTIFIED MAIL: 7012-2210-0002-0519-2572



TOWN OF NEWPORT, N.H.

April 29, 2013

Sent via Certified Mail and Fax

Ms. Susan Studlien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
Boston, MA 02109

Re: NPDES Permit No. NH0100200
Administrative Order Docket No. 09-015
Town of Newport Wastewater Treatment Plant Upgrade
Quarterly Report

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Respectfully,



Larry A. Wiggins, P.E.
Public Works Director
Town of Newport, NH

LAW/jas

cc: Tracy Wood, P.E., NHDES (Water Engineering Bureau-Compliance, PO Box 95, Concord, NH 03302-0095)
P. Brown, Town Manager
A. Greenleaf, Wastewater Treatment Plant Superintendent
R. Naylor, Water & Sewer Superintendent
T. Seigle, (NHDES, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095)

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FAX EPA - 617-918-0700
EPA - CERTIFIED Mail: 7012-2210-0002-0519-2565
NHDES - CERTIFIED MAIL: 7012-2210-0002-0519-2572



TOWN OF NEWPORT, N.H.

February 27, 2013

Sent via Certified Mail and Fax

Ms. Susan Studlien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
Boston, MA 02109

Re: NPDES Permit No. NH0100200
Administrative Order Docket No. 09-015
Town of Newport Wastewater Treatment Plant Upgrade
Construction Status Update

Dear Ms. Studlien:

In accordance with the EPA's Administrative Order for the Town of Newport's Wastewater Treatment Plant (WWTP), specifically Section IV, Notification Procedures, this letter is to notify the EPA that the Town's request for an extension for compliance with the Administrative Order needs to be revised. This letter is a follow-up to the Town's letter of January 11, 2013 wherein the Town requested an extension of the Phosphorus Removal Project Final Completion date to February 15, 2013.

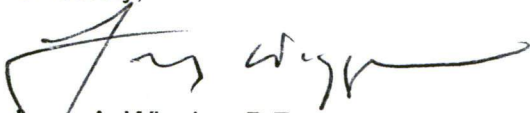
Based on the events that have occurred since the Town's January 11 letter, the Town is notifying the EPA that AECOM, the Town's engineering consultant, has determined that Substantial Completion has not been achieved. (Please see attached copy of a letter from Marc W. Morin, P.E. of AECOM, to Bill Ouellette of Penta Corporation dated February 20, 2013.) Please also note from this letter that the plant is experiencing significant operational issues, the causes of which are currently unknown.

On February 21, 2013, Town Manager Paul Brown and I met with representatives of the New Hampshire Department of Environmental Services (NHDES) to discuss AECOM's letter and the project's status.

At this time the Town cannot provide a date for resolution of these issues since AECOM is unable to provide a prospective compliance date. The Town will keep NHDES and EPA apprised of the situation and any significant events relative to project completion when more substantial information is known. The Town requests the EPA's indulgence until that information is available.

Please contact me at the address below if you need further information regarding the status of the project.

Sincerely,



Larry A. Wiggins, P.E.
Public Works Director
Town of Newport, NH
15 Sunapee Street
Newport, NH 03773

LAW/jas

cc: Paul Brown, Town Manager, Newport, NH (w/ attch)
Joy Hilton, U.S. EPA Region 1 (5 Post Office Sq., Suite 100 (SEW), Boston, MA 02109) (w/ attch)
Tracy Wood, P.E., NHDES (WEB-Compliance, PO Box 95, Concord, NH 03302-0095) (w/ attch)
Tom Siegle, P.E., NHDES (WEB-Grants Management, PO Box 95, Concord, NH 03302-0095) (w/ attch)
Marc Morin, P.E. (AECOM, 1000 Elm St., Suite 802, Manchester, NH 03101) (w/ attch)
Arnold Greenleaf, Wastewater Treatment Plant Superintendent (w/ attch)
Adele Fulton, Esq., (Gardner, Fulton & Waugh, P.L.L.C., 78 Bank Street, Lebanon, NH 03766) (w/ attch)

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FAXED: 617-918-0700

Certified Mail: 7012 0470 0000 8259 4984



AECOM
1000 Elm Street
Suite 802
Manchester, NH 03101
www.aecom.com

603 622 5150 tel
603 622 8480 fax

February 20, 2013

Mr. Bill Ouellette
Penta Corporation
1253 Whittier Highway
P.O. Box 390
Moultonboro, NH 03254

**Subject: Phosphorus Removal Upgrade
Operational Issues**

Dear Mr. Ouellette:

In response to the ongoing issues associated with the operation of the new Phosphorus Removal System at the Newport Wastewater Treatment Plant, AECOM has reviewed pertinent documentation and visited the site to observe operations. To date, AECOM has reviewed the correspondence from Westech regarding the Disc Filters and conducted internal team meetings for the purpose of evaluating the information and formulating a response. Finally, on February 7, 2013, AECOM Operations staff visited the site to make visual observations and collect data. The following is a summary of our observations and a recommended plan of action.

- The disc filters are not operating in accordance with the specifications. The current plant influent composition to the filters (TSS, flow, hydraulic loading) is well below the specified values that the filters should be able to process. The 0.9 mg/l phosphorus influent noted in the specifications is a typographical error but the dosages of the coagulant and polymer are correct when based on the flow capacity of the filters at an approximate 3 mg/l total Phosphorus input.
- The performance results documented during the 5-day performance test have not been duplicated since the conclusion of the test.
- Current average daily flows of approximately 600,000 gpd are significantly lower than design flows and the stated capacity of the disc filters
- Backwashing of the filters has been continuous with no discernible improvement in headloss across the filters.
- Coagulant and polymer dosages are significantly higher than during the pilot test. This is significant considering the total phosphorus levels are lower than during the piloting.
- The effluent in the flocculation basin was visually noted to be extremely turbid.
- Due to the high headloss condition across the filters, a portion of the flow has been continually bypassing the filters, resulting in an overall degradation of final effluent quality.

At this time, it is AECOM's belief that the operational issues with the Phosphorus Removal System are likely a result of multiple causes, each of which partially contributing to the observed operational issues. In light of this, AECOM has developed the following initial recommendations for determining the causes of the operational problems and improving the operation of the Phosphorus Removal System.

- It is AECOM's opinion that the phosphorus removal system has not been thoroughly optimized with respect to the upstream chemistry and in accordance with the contract documents. It is therefore recommended that the manufacturer return to the site to perform additional testing and optimization of the process at full scale flows.
- Additional data is required to fully evaluate the system and what may be at issue. At a minimum, both Total and Reactive phosphorus as well as total suspended solids (TSS) testing should be performed at the following locations
 1. Lagoon Effluent Wetwell
 2. Filter Influent
 3. Filter Effluent (prior to mixing with bypass flows)
 4. Final Effluent (after mixing with bypass flows)

Testing for Al should be conducted at locations 2, 3, and 4 to confirm that the coagulant dosing system is performing as intended.

- Evaluate alternative coagulants and dosages, specifically, Poly Aluminum Chloride (PACl). PACl is currently used for solids dewatering and the plant staff is familiar with its use.
- Evaluate the use of alternative polymers
- Remove filter discs to evaluate condition of media (inside surface) and whether backwashing is effectively cleaning the media.
- Evaluate the polymer carrier water flow rate and adjust in accordance with the polymer manufacturer's recommendations. Perform testing as required to determine adequate polymer dilution prior to addition to mix tank.
- Coordinate additional testing with AECOM so that a representative from AECOM's operations staff can be on site during the testing in order to observe the procedures and offer assistance where applicable.

Due to the operational issues listed herein and the need for further optimization of the system, it is AECOM's opinion that the phosphorus removal system is not performing as intended and therefore the Owner does not have beneficial use of the system. Therefore, substantial completion, as defined in the contract documents cannot be certified and the Town has the right to assess liquidated damages but no decision has been made about it. Please make the necessary arrangements to address the recommendations and coordinate scheduling with AECOM and the Town of Newport.



Should you need further information or have any questions, feel free to contact me directly at 622-2978.

Very truly yours,

AECOM

A handwritten signature in black ink, appearing to read "Marc W. Morin", is written over the AECOM text.

Marc W. Morin, P.E.
Project Manager

Cc: L. Wiggins, Town of Newport
T. Seigle, NHDES



FAX TRANSMISSION

DATE: Feb. 27, 2013
FAX TO: USEPA - Region 1
ATTN: Susan Studiers
FAX NO.: 617-418-0700

FROM: Larry Wiggins
NEWPORT Public Works DEPARTMENT
FAX NO.: 603-863-8015

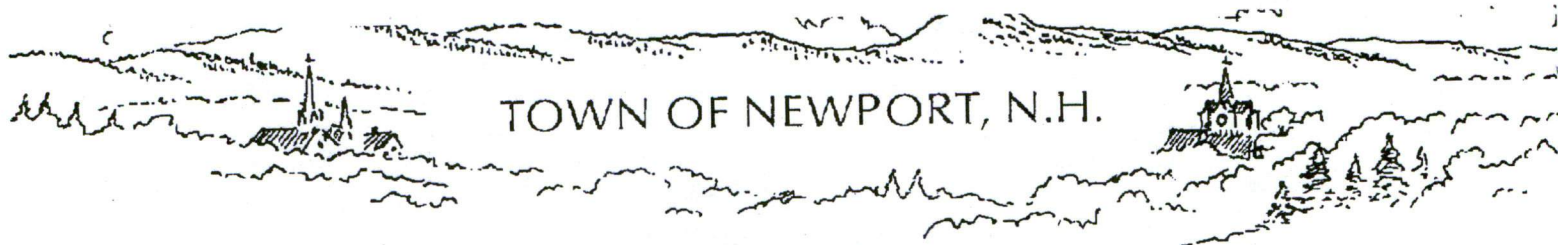
FAX TRANSMISSION REGARDING:

NPDES Permit No. NH0100200
AO Docket No. 09-015
Newport WWTP Upgrade Constr. Status Update

PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 603-863-3650 IF YOU DO NOT RECEIVE ALL PAGES OR HAVE ANY QUESTIONS REGARDING THIS DOCUMENT.

TOTAL PAGES INCLUDING THIS COVER PAGE 6

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February 27, 2013

Sent via Certified Mail and Fax

Ms. Susan Studien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
Boston, MA 02109

Re: NPDES Permit No. NH0100200
Administrative Order Docket No. 09-015
Town of Newport Wastewater Treatment Plant Upgrade
Construction Status Update

Dear Ms. Studien:

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Based on the events that have occurred since the Town's January 11 letter, the Town is notifying the EPA that AECOM, the Town's engineering consultant, has determined that Substantial Completion has not been achieved. (Please see attached copy of a letter from Marc W. Morin, P.E. of AECOM, to Bill Ouellette of Penta Corporation dated February 20, 2013.) Please also note from this letter that the plant is experiencing significant operational issues, the nature of which are currently unknown.

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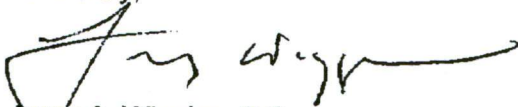
Ms. Susan Studien, Director
USEPA Office of Environmental Stewardship
WWTP Phosphorus Removal Upgrade (AO 09-015)

February 27, 2013
Project Status Update
Page 2 of 2

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Sincerely,



Larry A. Wiggins, P.E.
Public Works Director
Town of Newport, NH
15 Sunapee Street
Newport, NH 03773

LAW/jas

cc: Paul Brown, Town Manager, Newport, NH (w/ attach)
Joy Hilton, U.S. EPA Region 1 (5 Post Office Sq., Suite 100 (SEW), Boston, MA 02109) (w/ attach)
Tracy Wood, P.E., NHDES (WEB-Compliance, PO Box 95, Concord, NH 03302-0095) (w/ attach)
Tom Siegle, P.E., NHDES (WEB-Grants Management, PO Box 95, Concord, NH 03302-0095) (w/ attach)
Marc Morin, P.E. (AECOM, 1000 Elm St., Suite 802, Manchester, NH 03101) (w/ attach)
Arnold Greenleaf, Montpelier Treatment Plant Superintendent (w/ attach)
Adele Fulton, Esq., (Gardner, Fulton & Waugh, P.L.L.C., 78 Bank Street, Lebanon, NH 03756) (w/ attach)

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FAXED: 617-918-0700

Certified Mail: 7012 0470 0000 8259 4984

Subject: Phosphorus Removal Upgrade
Operational Issues

Dear Mr. Ouellette:

In response to the ongoing issues associated with the operation of the new Phosphorus Removal System at the Newport Wastewater Treatment Plant, AECOM has reviewed pertinent documentation and visited the site to observe operations. To date, AECOM has reviewed the correspondence from Westech regarding the Disc Filters and conducted internal team meetings for the purpose of evaluating the information and formulating a response. Finally, on February 7, 2013, AECOM Operations staff visited the site to make visual observations and collect data. The following is a summary of our observations and a recommended plan of action.

- The disc filters are not operating in accordance with the specifications. The current plant influent composition to the filters (TSS, flow, hydraulic loading) is well below the specified values that the filters should be able to process. The 0.9 mg/l phosphorus influent noted in the specifications is a typographical error but the dosages of the coagulant and polymer are correct when based on the flow capacity of the filters at an approximate 3 mg/l total Phosphorus input.
- The performance results documented during the 5-day performance test have not been duplicated since the conclusion of the test.
- Current average daily flows or approximately 600,000 gpd are significantly lower than design flows and the stated capacity of the disc filters
- Backwashing of the filters has been continuous with no discernible improvement in headloss across the filters.
- Coagulant and polymer dosages are significantly higher than during the pilot test. This is significant considering the total phosphorus levels are lower than during the piloting.
- The effluent in the flocculation basin was visually noted to be extremely turbid.
- Due to the high headloss condition across the filters, a portion of the flow has been continually bypassing the filters, resulting in an overall degradation of final effluent quality.



TOWN OF NEWPORT, N.H.

February 27, 2013

Sent via Certified Mail and Fax

Ms. Susan Studien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
Boston, MA 02109

Re: NPDES Permit No. NH0100200
Administrative Order Docket No. 09-015
Town of Newport Wastewater Treatment Plant Upgrade
Construction Status Update

Dear Ms. Studien:

In accordance with the EPA's Administrative Order for the Town of Newport's Wastewater Treatment Plant (WWTP), specifically Section IV, Notification Procedures, this letter is to notify the EPA that the Town's request for an extension for compliance with the Administrative Order needs to be revised. This letter is a follow-up to the Town's letter of January 11, 2013 wherein the Town requested an extension of the Phosphorus Removal Project Final Completion date to February 15, 2013.

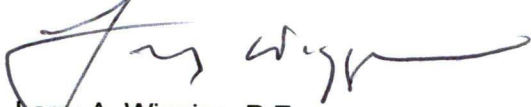
Based on the events that have occurred since the Town's January 11 letter, the Town is notifying the EPA that AECOM, the Town's engineering consultant, has determined that Substantial Completion has not been achieved. (Please see attached copy of a letter from Marc W. Morin, P.E. of AECOM, to Bill Ouellette of Penta Corporation dated February 20, 2013.) Please also note from this letter that the plant is experiencing significant operational issues, the causes of which are currently unknown.

On February 21, 2013, Town Manager Paul Brown and I met with representatives of the New Hampshire Department of Environmental Services (NHDES) to discuss AECOM's letter and the project's status.

At this time the Town cannot provide a date for resolution of these issues since AECOM is unable to provide a prospective compliance date. The Town will keep NHDES and EPA apprised of the situation and any significant events relative to project completion when more substantial information is known. The Town requests the EPA's indulgence until that information is available.

Please contact me at the address below if you need further information regarding the status of the project.

Sincerely,



Larry A. Wiggins, P.E.
Public Works Director
Town of Newport, NH
15 Sunapee Street
Newport, NH 03773

LAW/jas

cc: Paul Brown, Town Manager, Newport, NH (w/ attch)
Joy Hilton, U.S. EPA Region 1 (5 Post Office Sq., Suite 100 (SEW), Boston, MA 02109) (w/ attch)
Tracy Wood, P.E., NHDES (WEB-Compliance, PO Box 95, Concord, NH 03302-0095) (w/ attch)
Tom Siegle, P.E., NHDES (WEB-Grants Management, PO Box 95, Concord, NH 03302-0095) (w/ attch)
Marc Morin, P.E. (AECOM, 1000 Elm St., Suite 802, Manchester, NH 03101) (w/ attch)
Arnold Greenleaf, Wastewater Treatment Plant Superintendent (w/ attch)
Adele Fulton, Esq., (Gardner, Fulton & Waugh, P.L.L.C., 78 Bank Street, Lebanon, NH 03766) (w/ attch)

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FAXED: 617-918-0700

Certified Mail: 7012 0470 0000 8259 4984



AECOM
1000 Elm Street
Suite 802
Manchester, NH 03101
www.aecom.com

603 622 5150 tel
603 622 8480 fax

February 20 , 2013

Mr. Bill Ouellette
Penta Corporation
1253 Whittier Highway
P.O. Box 390
Moultonboro, NH 03254

**Subject: Phosphorus Removal Upgrade
Operational Issues**

Dear Mr. Ouellette:

In response to the ongoing issues associated with the operation of the new Phosphorus Removal System at the Newport Wastewater Treatment Plant, AECOM has reviewed pertinent documentation and visited the site to observe operations. To date, AECOM has reviewed the correspondence from Westech regarding the Disc Filters and conducted internal team meetings for the purpose of evaluating the information and formulating a response. Finally, on February 7, 2013, AECOM Operations staff visited the site to make visual observations and collect data. The following is a summary of our observations and a recommended plan of action.

- The disc filters are not operating in accordance with the specifications. The current plant influent composition to the filters (TSS, flow, hydraulic loading) is well below the specified values that the filters should be able to process. The 0.9 mg/l phosphorus influent noted in the specifications is a typographical error but the dosages of the coagulant and polymer are correct when based on the flow capacity of the filters at an approximate 3 mg/l total Phosphorus input.
- The performance results documented during the 5-day performance test have not been duplicated since the conclusion of the test.
- Current average daily flows or approximately 600,000 gpd are significantly lower than design flows and the stated capacity of the disc filters
- Backwashing of the filters has been continuous with no discernible improvement in headloss across the filters.
- Coagulant and polymer dosages are significantly higher than during the pilot test. This is significant considering the total phosphorus levels are lower than during the piloting.
- The effluent in the flocculation basin was visually noted to be extremely turbid.
- Due to the high headloss condition across the filters, a portion of the flow has been continually bypassing the filters, resulting in an overall degradation of final effluent quality.

At this time, it is AECOM's belief that the operational issues with the Phosphorus Removal System are likely a result of multiple causes, each of which partially contributing to the observed operational issues. In light of this, AECOM has developed the following initial recommendations for determining the causes of the operational problems and improving the operation of the Phosphorus Removal System.

- It is AECOM's opinion that the phosphorus removal system has not been thoroughly optimized with respect to the upstream chemistry and in accordance with the contract documents. It is therefore recommended that the manufacturer return to the site to perform additional testing and optimization of the process at full scale flows.
- Additional data is required to fully evaluate the system and what may be at issue. At a minimum, both Total and Reactive phosphorus as well as total suspended solids (TSS) testing should be performed at the following locations
 1. Lagoon Effluent Wetwell
 2. Filter Influent
 3. Filter Effluent (prior to mixing with bypass flows)
 4. Final Effluent (after mixing with bypass flows)

Testing for Al should be conducted at locations 2, 3, and 4 to confirm that the coagulant dosing system is performing as intended.

- Evaluate alternative coagulants and dosages, specifically, Poly Aluminum Chloride (PACl). PACl is currently used for solids dewatering and the plant staff is familiar with its use.
- Evaluate the use of alternative polymers
- Remove filter discs to evaluate condition of media (inside surface) and whether backwashing is effectively cleaning the media.
- Evaluate the polymer carrier water flow rate and adjust in accordance with the polymer manufacturer's recommendations. Perform testing as required to determine adequate polymer dilution prior to addition to mix tank.
- Coordinate additional testing with AECOM so that a representative from AECOM's operations staff can be on site during the testing in order to observe the procedures and offer assistance where applicable.

Due to the operational issues listed herein and the need for further optimization of the system, it is AECOM's opinion that the phosphorus removal system is not performing as intended and therefore the Owner does not have beneficial use of the system. Therefore, substantial completion, as defined in the contract documents cannot be certified and the Town has the right to assess liquidated damages but no decision has been made about it. Please make the necessary arrangements to address the recommendations and coordinate scheduling with AECOM and the Town of Newport.



Should you need further information or have any questions, feel free to contact me directly at 622-2978.

Very truly yours,

AECOM

A handwritten signature in black ink, appearing to read 'Marc W. Morin', is written over the AECOM logo.

Marc W. Morin, P.E.
Project Manager

Cc: L. Wiggins, Town of Newport
T. Seigle, NHDES



TOWN OF NEWPORT, N.H.

January 29, 2013

Sent via Certified Mail and Fax

Ms. Susan Studlien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
Boston, MA 02109

Re: NPDES Permit No. NH0100200
Administrative Order Docket No. 09-015
Town of Newport Wastewater Treatment Plant Upgrade
Quarterly Report

Dear Ms. Studlien:

As required by the EPA's Administrative Order (AO), please find the following quarterly report on the status of the Town's Wastewater Treatment Facility Upgrade for the October to December 2012 period.

1. The Town of Newport's Wastewater Treatment Plant Phosphorous Removal Upgrade Project is under construction. The status is as follows:
 - a) Due to the significant delay in delivery of the pre-engineered building, the project was delayed and Penta Corporation could not meet the October 31, 2012 Substantial Completion deadline. Penta Corporation requested a change order to revise the date of Final Completion to December 31, 2012. On October 9, 2012, the Town received the EPA's letter as prepared by Susan Studlien, Director, Office of Environmental Stewardship granting the Town's request for Final Completion to be December 31, 2012.
 - b) Penta Corporation worked through October, November and December to complete the project however in mid-December, it was discovered the filter equipment, which was built in Sweden, had been manufactured incorrectly. When WesTech, Inc. (Penta's subcontractor) arrived onsite for system start-up, it was discovered the filter backwash pumps and probes were manufactured too short and were not submerged enough to operate accurately.
 - c) In order to continue with testing and start-up, WesTech, Inc. (the disc filter manufacturer) replaced the backwash pumps and probes with temporary equipment. The new permanent backwash pumps and probes have been re-ordered from Sweden and are scheduled to be installed in 2013.

According to Penta Corporation, the temporary pumps and probes have allowed the filters to operate in automatic mode since the last week in December, 2012.

Polymer testing began on December 26, 2012 and has been ongoing since that time.

- d) By December 31, 2012, the building was weather tight. With the exception of the disc filters, the process equipment was calibrated and start-up operations were initiated. The Wastewater Treatment Plant Operators received operational training on most of the process equipment.
- e) The project was not completed by the December 31, 2012 deadline. Polymer testing and optimization continues into January 2013. The 5-day performance test (required for Substantial Completion) is scheduled for January 2013. The Town will need to request an extension of the completion date when Penta Corporation submits a revised schedule.


2. With regards to Whole Effluent Toxicity issue:

- a) The Wastewater Treatment Plant Operators pumped sludge from Lagoon No. 1 to the sludge disposal geotube area. The operators estimate approximately 100,000 gallons of sludge were removed from the lagoon.
- b) Due to the delay in the completion of the plant, the Town will need to request an extension from the current November 30, 2013 deadline for achieving compliance with the NPDES Permit regarding the WET monitoring.

3. The infiltration and inflow study is ongoing. The Public Works Department will continue the sewer system evaluation by constructing additional sewer manholes, continuing with the infiltration and inflow testing and evaluation of the sewer system with sewer video.

If you need further information or have any questions, please call me at (603) 863-3650.

Respectfully,



Larry A. Wiggins, P.E.
Public Works Director
Town of Newport, NH

LAW/jas

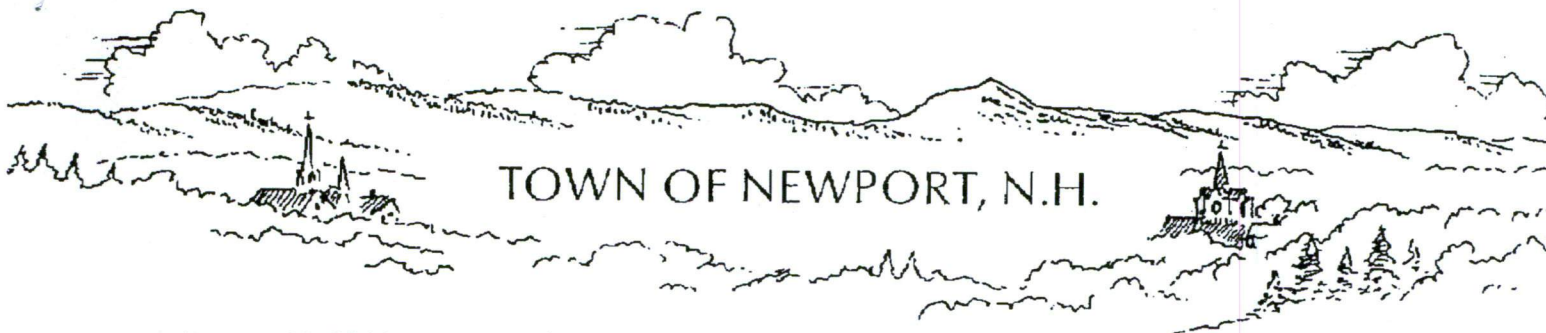
cc: Tracy Wood, P.E., NHDES (Water Engineering Bureau-Compliance, PO Box 95, Concord, NH 03302-0095)
P. Brown, Town Manager
A. Greenleaf, Wastewater Treatment Plant Superintendent
R. Naylor, Water & Sewer Superintendent

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FAX EPA - 617-918-0700

EPA - CERTIFIED MAIL: 7010 3090 0003 5429 9747

NHDES - CERTIFIED MAIL: 7012 0470 0000 8259 4939



January 29, 2013

Sent via Certified Mail and Fax

Ms. Susan Studlien, Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency
Region 1
5 Post Office Sq., Suite 100
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Ms. Susan Studien, Director
USEPA Office of Environmental Stewardship
WWTP Phosphorus Removal Upgrade (AO 09-015)

January 29, 2013
Quarterly Report
Page 2 of 2

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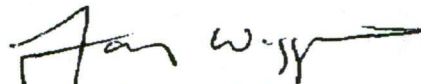
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Public Works Director
Town of Newport, NH

LAW/jas

cc: Tracy Wood, P.E., NHDES (Water Engineering Bureau-Compliance, PO Box 95, Concord, NH 03302-0095)
P. Brown, Town Manager
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NHDES - CERTIFIED MAIL: 7012 0470 0000 8259 4939





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01/30/2013 03:29 PM

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